Clarion

Owner's manual

NX504E
FX504E

Smart Access

DVD MULTIMEDIA STATION WITH BUILT-IN NAVIGATION & 6.2-INCH TOUCH PANEL CONTROL
MULTIMEDIA STATION & 6.2-INCH TOUCH PANEL CONTROL

CAUTIONS:

This appliance contains a laser system and is classified as a “CLASS 1 LASER PRODUCT”.
To use this model properly, read this Owner’s Manual carefully and keep this manual for your future reference. In case of any trouble with this player, please contact your nearest “AUTHORIZED service station”. To prevent direct exposure to the laser beam, do not try to open the enclosure.

!CAUTION

USE OF CONTROLS OR ADJUSTMENTS OR PERFORMANCE OF PROCEDURES OTHER THAN THOSE SPECIFIED IN THE OWNER’S MANUAL MAY RESULT IN HAZARDOUS RADIATION EXPOSURE.

ADVARSEL.

Denne mærking er anbragt udvendigt på apparatet og indikerer, at apparatet arbejder med laserstråler af klasse 1, hvilket betyder, at der anvendes laserstråler af svageste klasse, og at man ikke på apparatets yderside kan blive udsat for utilladelig kraftig stråling.

APPARATET BØR KUN ÅBNES AF FAGFOLK MED SÆRLIGT KENDSKAB TIL APPARATER MED LASERSTRÅLER!

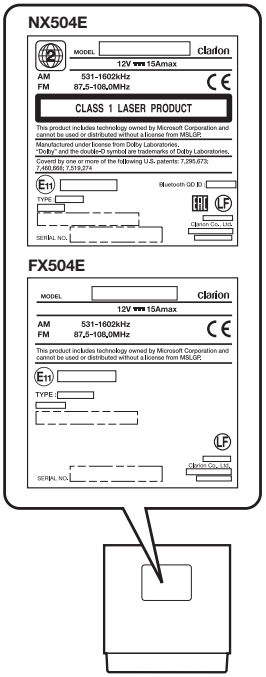
Indvendigt i apparatet er anbragt den her gengivne advarselsmækning, som advarer imod at foretage sådanne indgreb i apparatet, at man kan komme til at udsaætte sig for laserstråling.

OBS!

Apparaten innehåller laserkomponenten som avger laserstrålning överstigande gränsen för laserklass 1.

VAROITUS

Suojakoteloa si saa avata. Laite sisältää laserdiodin, joka lähettää näkymätöntä silmille vaarallista lasersäteilyä.


NX504E
MODEL
Clarion
12V 15Amax
AM 531–1602kHz
FM 87,5–108,0MHz
CLASS 1 LASER PRODUCT
This product includes technology owned by Microsoft Corporation and cannot be used or distributed without a license from MSLGP.
Manufactured under license from Dolby Laboratories.
"Dolby" and the double-D symbol are trademarks of Dolby Laboratories.
Covered by one or more of the following U.S. patents: 7,295,673; 7,460,668; 7,519,274
Bluetooth QD ID:
TYPE
SERIAL NO.
Clarion Co., Ltd.
FX504E
MODEL
Clarion
12V 15Amax
AM 531–1602kHz
FM 87,5–108,0MHz
This product includes technology owned by Microsoft Corporation and cannot be used or distributed without a license from MSLGP.
TYPE
SERIAL NO.
Clarion Co., Ltd.

Thank you for purchasing the Clarion NX504E or FX504E.

- Please read this owner’s manual thoroughly before operating this equipment.
- After reading this manual, be sure to keep it on hand for future reference.
- Check the contents of the enclosed warranty card and keep it carefully with this manual.
- The provided disc (CD-ROM manual) cannot be played back on this unit.

In particular, read the descriptions in “To Ensure Safe Use.” This describes cautions to ensure safe use of the unit without inflicting harm or damage on yourself or others. → P.3

- The content of this manual may differ in part with that of the actual product due to modifications, etc. to the specifications.
- The content of this manual may be changed in part without notice.

When transferring or reselling the unit or disposing of it, delete (initialize) all data saved on it to protect your personal information and copyright protection.

Meanings of Symbols Used in This Manual

⚠ WARNING

This indicates the possibility that failure to follow this instruction might lead to death or serious injury.

⚠ CAUTION

This explains things that may cause injury if instructions are not followed.

Attention

Though this does not fall under the category of “WARNING” or “CAUTION”, this indicates that there is the danger of money or time being lost.

Preparations

This explains what must be done beforehand to operate the product.

Notice

This explains limitations related to operations.

MEMO:

This explains supplementary information for mastering use of the unit.

Hard buttons and touch keys

The operation descriptions in this manual, hard buttons on the main unit are indicated by dotted frames as the example shown below.

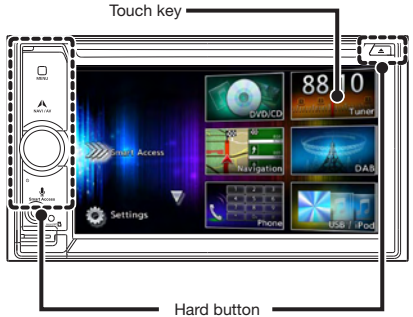
Example: MENU

The unit uses a touch panel system that you can operate simply by touching the screen with your fingertip.

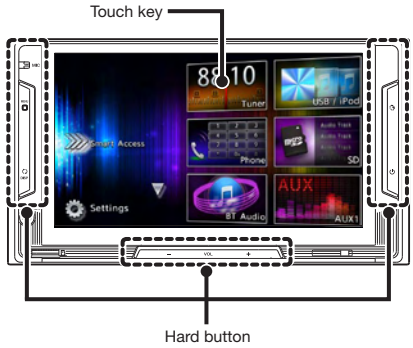
In this manual, operations performed by touching keys on screen are indicated by the grayed out keys as the example shown below.

Example: Tuner

NX504E



FX504E



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English

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To Ensure Safe Use

Symbols relating to safety

The “possibility of the driver or other people being injured” is indicated as follows, and the following describes these dangers and how to avoid them. Be sure to read these important warnings.

⚠ WARNING	This indicates the possibility that failure to follow this instruction might lead to death or serious injury.
⚠ CAUTION	This explains things that may cause injury if instructions are not followed.

⚠ WARNING

❑ *Do not use the product’s guidance information for finding emergency facilities. (NX504E only)*

This product does not contain information on all hospitals, fire stations, police stations, etc. Also, this information may differ from actual information, so there is the possibility that you might not reach these facilities within the expected time.

❑ *Always disconnect the negative terminal of the battery before doing any work.*

Failure to do so might cause electric shock, injury or device malfunction.

❑ *The driver must not operate or stare at the unit while driving.*

The driver may be distracted and cause a traffic accident. Always stop in a safe location.

❑ *Follow all applicable traffic regulations. (NX504E only)*

Information such as maps, one-way traffic signs, traffic regulation marks and signs, etc., or route advice (recommended routes and voice guidance), etc. displayed on navigation screens may differ from actual road conditions. Be sure to follow actual road signs and traffic conditions when driving. Failure to do so might cause traffic accidents.

❑ *Do not disassemble or modify the product.*

Do not open the case to oil parts or cut through the insulation on wires to supply power to other devices. Doing so might cause accidents, fire, electric shock, or malfunction.

❑ *Ask a professional engineer to replace any fuses and use only fuses with the rated capacity.*

Use of fuses exceeding the rated capacity might cause fire or malfunctions.

English

❑ *Do not use the product if it has malfunctioned or is not operating properly.*

Stop using the product immediately if there is no image or audio, if any foreign objects get inside it, if it gets wet, if it emits smoke, strange noises, or strange smells. Failure to do so might cause fire or electric shock.

❑ *Do not use benzene or paint thinner, car cleaner, polish spray, or similar fluids.*

Use of these fluids inside the vehicle will, for example, cause inflammable gas to ignite and cause fire.
Also, use of these for daily care of this product will deform material or cause paint to peel off.

❑ *Do not leave microSD memory cards within the reach of children.*

They might swallow them by mistake. Seek medical treatment immediately if anyone swallows a microSD memory card.

⚠ CAUTION

❑ *Ask a professional engineer to install, remove, change installation or wire the unit.*

Installation and wiring must be done correctly. If it is installed or wired incorrectly, it may interfere with driving and cause an accident or malfunction.

❑ *Do not use the main unit except in a vehicle.*

Doing so may cause injury or electric shock.

❑ *Set the volume during driving to a level that allows you to hear sounds outside the vehicle.*

Driving without being able to hear sounds outside the vehicle might cause an accident.

❑ *Do not place objects on the control panel or subject it to strong impact.*

Doing so might cause the control panel or LCD to malfunction, break or be deformed.

- Do not place objects on it.
- Do not press strongly with your hand.
- Do not hit it with hard objects such as the tip of a pen, pin or fingernails.
- Do not splash it with water, juice or other liquids.

Request and Notice

LCD display

- Small black spots or bright spots may appear on the screen, this is a phenomenon unique to LCD monitors, and is not a malfunction.
- Do not stick protective sheets, etc. on the touch panel. This might cause malfunctions or reduce response time. When the LCD panel becomes dirty, refer to “Daily care and handling of main unit.” → P.50

Operating environment

- To prevent the battery from going flat, operate the unit with the engine running.
- The unit has a high-speed CPU, which means that the case may get hot. Pay particular attention to handling the unit during use or immediately after turning the engine off.
- On vehicles with a keyless entry system, the unit may stop operating if you bring the key close to it. Also, skipping might occur if you bring the key close to the unit or Bluetooth Audio device. If this happens, move the key away.
- There may be static or the screen may be distorted if electrical components that generate strong electrical noise are used near the unit. If this happens, either move the electrical component considered the cause of the electrical noise away from the unit or stop using it.

Routes

- When the position of a facility displayed from the search function is set as it is as a destination, you may be guided to an inappropriate location such as the back of the facility or on to an expressway. Please understand this and check the route near the destination.
- Names may be difficult to understand, depending on the audio data.
- When a route cannot be calculated, move the destination to a main road nearby and try calculating again. Routes sometimes cannot be calculated depending on conditions such as distance to the destination.

Cautions about the Warranty within the warranty period

- Contact your retailer about using the warranty for repairs.
- You may need to return accessories when you use the warranty for repairs.
- Data that could not be saved due to the unit malfunctioning and data that has disappeared is not covered by the Warranty.
- The Warranty is not applied in the following cases even within the warranty period:
  - Careless handling (inappropriate operations not described in the User’s Manual, dropping, impact, splashing with water, etc.)
  - Malfunction and damage caused by improper repair, modification and disassembly
  - Malfunction and damage caused by fire, salt damage, gas damage, earthquakes, storm and flood damage, lightning strikes, abnormal voltage, and other natural disasters
  - Scratching, discoloring and dirt resulting from use or damages from improper storage

Copyright

- Software and data whose copyright is owned by third parties licensed to Clarion in accordance with a licensing agreement is recorded on the unit. Excluding instances that are clearly indicated as being permitted in descriptions in the User’s Manual, removing, reproducing, or modifying the software in the unit (including updates and data) is strictly forbidden by law.

Before Starting Operations

The following describes information you should know before you start using the unit.

Features available on the unit

Smart Access
Intelligent VOICE (NX504E only)
Intelligent Tune
DVD VIDEO (NX504E only)
COMPACT DISC DIGITAL AUDIO TEXT (NX504E only)
DIVX (NX504E only)
DOLBY DIGITAL (NX504E only)
Bluetooth®
Made for iPod iPhone
Android™ Connectivity
DAB+ Digital Audio Broadcasting (NX504E only)
HDMI® HIGH-DEFINITION MULTIMEDIA INTERFACE

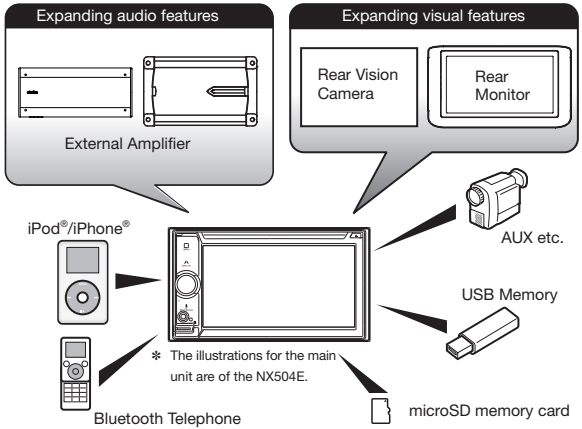
NX504E

- Cloud-based Speech Recognition and Destination Search
- 8GB Map Storage and Latest Map Guarantee
- Built-In DAB tuner

FX504E

- Smartphone Connectivity
- Built-in Bluetooth® Hands-free (HFP) and Audio Streaming (A2DP & AVRCP)
- Advanced Sound Tuning and 4V/6ch RCA Output

❑ *Expanding Systems*



✻ The items listed outside of the frames are the commercial products generally sold.

PRECAUTIONS

⚠ WARNING

- **For your safety, the driver should not watch the DVD video/movie data or operate the controls while driving. Please note that watching and operating the DVD video/movie data while driving are prohibited by law in some countries. Also, while driving, keep the volume to a level at which external sounds can be heard.**

1. When the inside of the car is very cold and the player is used soon after switching on the heater, moisture may form on the disc (DVD/CD) or the optical parts of the player and proper playback may not be possible. If moisture forms on the disc (DVD/CD), wipe it off with a soft cloth. If moisture forms on the optical parts of the player, do not use the player for about one hour. The condensation will disappear naturally allowing normal operation.
2. Driving on extremely bumpy roads which cause severe vibration may cause the sound to skip.
3. This unit uses a precision mechanism. Even in the event that trouble arises, never open the case, disassemble the unit, or lubricate the rotating parts.
4. Insert and remove the microSD card after turning off the unit, because the microSD card might get damage.

INFORMATION FOR USERS:

CHANGES OR MODIFICATIONS TO THIS PRODUCT NOT APPROVED BY THE MANUFACTURER WILL VOID THE WARRANTY.

❑ *Operation Panel/Generalities*

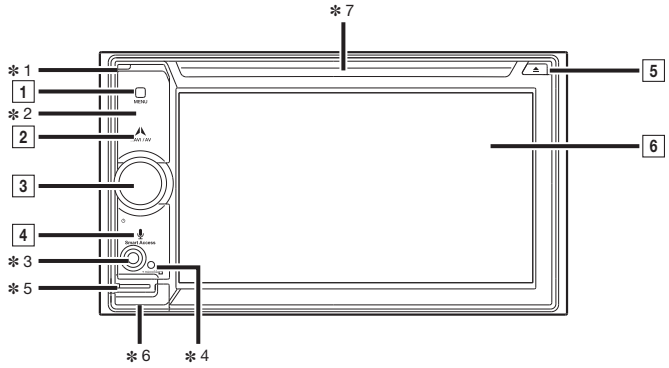
For a longer service life, be sure to read the following cautions.

- Do not allow any liquids on the set from drinks, umbrellas, etc. Doing so may damage the internal circuitry.
- Do not disassemble or modify the set in any way. Doing so may result in damage. Also, subjecting the operation panel to shocks may result in breakage, deformation, or other damage.
- Do not let cigarettes burn the display. Doing so may damage or deform the cabinet.
- If a problem should occur, have the set inspected at your store of purchase.
- The optional remote control unit may not work if the remote control sensor is exposed to direct sunlight.
- In extremely cold weather, the display movement may slow down and the display may darken, but this is not a malfunction. The display will work normally when the temperature increases.
- Small black and shiny spots inside the operation panel are normal for LCD products.
- The touchkeys on the display operate when slightly touched. Do not press the touchkey screen with much force.
- Do not push the case surrounding the touchkey panel with much force. This may cause malfunctioning of the touchkeys.

Names and functions of parts

The following describes the button names on the operation panel of the unit and their functions.

NX504E



Insert and remove the microSD card after turning off the unit, because the microSD card might get damage.

✻ 1 This is the built-in microphone. This is used as the microphone for the hands free function when the unit is connected to a Bluetooth compatible cellphone by a wireless connection.

✻ 2 This is the remote control sensor. This receives the signal from the remote control (sold separately).

✻ 3 This is the AUX terminal. Audio and video from external devices connected to this terminal can be played when the audio mode is switched to AUX. → **P.25**

✻ 4 This is the Antitheft Indicator. This light blinks when the Antitheft Activation setting is set to “ON” to indicate that the antitheft function is activated. → **P.39**

✻ 5 This is where the microSD card is inserted to enjoy data in microSD cards. → **P.10**

✻ 6 The map microSD is housed in here. To update the map, open this cover, and remove and insert the card.
Do not open the cover for other operations.

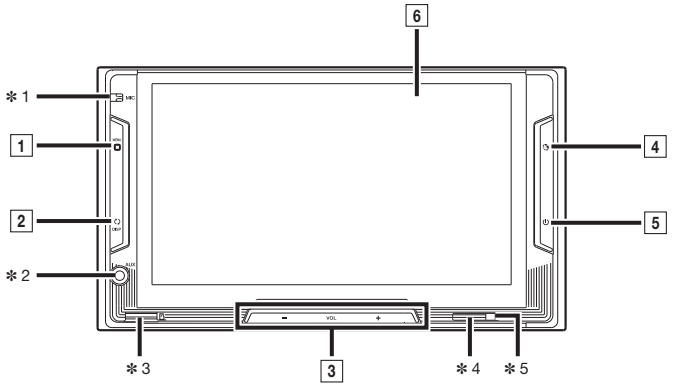
✻ 7 This is where DVD video, CD, MP3, WMA, and DivX discs are inserted. → **P.10**

This document uses the following inline graphics and conventions to indicate operations using the buttons on the operation panel.

Number	Inline graphic	Description of operation	
1	MENU	Short press	This displays the main menu screen.
2	NAVI AV	Short press	This switches between the current position map screen and currently selected audio screen.
3	—	Turn	This is the rotary volume knob. Use this to adjust the volume of the audio-visual function or the route audio guidance, etc.
		Short press	This turns off the screen and stops audio output.
4	Smart Access	Short press	This starts up the voice recognition application. → **P.34**
		Long press	This starts up Smart Access.
5	⏏	Short press	This ejects the disc inserted in the unit.
6	—	Touch	This is the monitor and touch panel. This functions as a touch panel by touching the screen when it is displayed.

English

FX504E



Insert and remove the microSD card after turning off the unit, because the microSD card might get damage.

✻ 1 This is the built-in microphone. This is used as the microphone for the hands free function when the unit is connected to a Bluetooth compatible cellphone by a wireless connection.

✻ 2 This is the AUX terminal. Audio and video from external devices connected to this terminal can be played when the audio mode is switched to AUX. → **P.25**

✻ 3 This is where the microSD card is inserted to enjoy data in microSD cards. → **P.10**

✻ 4 This is the remote control sensor. This receives the signal from the remote control (sold separately).

✻ 5 This is the Antitheft Indicator. This light blinks when the Antitheft Activation setting is set to “ON” to indicate that the antitheft function is activated. → **P.39**

This document uses the following inline graphics and conventions to indicate operations using the buttons on the operation panel.

Number	Inline graphic	Description of operation	
1	MENU	Short press	This displays the main menu screen.
2	DISP	Short press	This switches to the audio screen.
3	VOL+ VOL-	Short press	Use this to adjust the volume of the audio-visual function.
4	Smart Access	Short press	This starts up Smart Access.
5	POWER	Short press	This turns off the screen and stops audio output.
6	—	Touch	This is the monitor and touch panel. This functions as a touch panel by touching the screen when it is displayed.

Basic method of use

Turning the power on

1 **Turn the engine key to the “ACC” or “ON” position.**
The unit turns on.
After the opening screen is displayed, touch OK. The current position map screen or the audio screen is displayed.
When the engine key is turned to the “OFF” position, the unit is turned off.

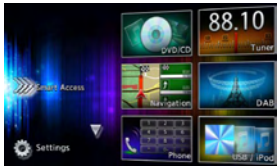
MEMO:

- *When the Antitheft Activation function is set, the password entry screen is displayed.* → **P.39**

How to use menus

The unit has a main menu for using all functions and a shortcut menu that groups together frequently used functions. Use of the shortcut menu allows you to quickly access frequently used functions.

1 MENU
The main menu screen is displayed.



Touching the main menu screen and quickly sliding your finger up or down then removing it, moves you to the previous or next page. This operation is called flicking.

Screens can be changed by slowly sliding your finger across the screen.

▼▲:
Touch these to move to the previous or next menu screen.

Smart Access:
This displays the Smart Access mode. → **P.31**

DVD / CD:
This displays the DVD, CD or DivX modes. (NX504E only)
→ **P.14**, **P.18**, **P.19**

Tuner:
This displays the radio mode.
→ **P.12**

Navigation:
This displays the navigation mode. (NX504E only) → “Owner's manual - Navigation”

DAB:
This displays the DAB mode. (NX504E only) → **P.13**

Phone:
This displays the telephone mode.
→ **P.29**

USB / iPod:
This displays the USB audio mode or iPod audio/iPod video mode.
→ **P.20**, **P.21**

BT Audio:
This displays the Bluetooth audio mode. → **P.24**

SD:
This displays the SD audio mode.
→ **P.20**

AUX1:
This displays the AUX1 mode.
→ **P.25**

AUX2:
This displays the AUX2 mode.
→ **P.25**

(Settings):
This displays the various setting screens. → **P.38**

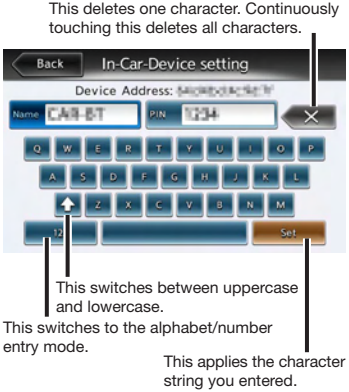
Using the shortcut menu

You can open a shortcut menu by touching › in the top screen of a function selected from the main menu screen.

Up to five frequently used functions can be registered to the shortcut menu. → **P.39**
Touching ‹ returns the screen to the previous screen.

How to enter text

In the text entry screen, letters and numbers can be entered by touching the keypad.



Operating lists

When a list contains many items, the list is displayed over two or more pages.

❑ Moving between pages in a list

1 ⏬ or ⏫

You can also scroll through pages in a list by flicking.

❑ Using the index to select a list

When alphabet keys are displayed on the left side of the screen, items beginning with the letter of the alphabet that was touched can be displayed as a list. The following example explains how to select items beginning with the letter “B” from the list.

1 B

Items beginning with “B” are displayed.

English

2 **Select the relevant item from the list.**

If all indexes are not displayed, either touch ⏫ or ⏬ or flick to move to the next page.

❑ *Adjusting numerical values*

When ➕ and ➖ are displayed, numerical values, volume, etc. can be adjusted.

Inserting and removing discs (NX504E only)

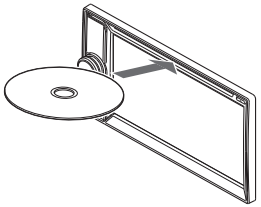
To enjoy data in CD, MP3/WMA or DVD discs, the disc must be loaded into the unit.

Attention

- *Do not leave discs protruding from the loading slot. Either insert them completely or remove them.*
- *Do not touch the recording surface (shiny side) of the disc.*
- *Do not insert two discs at the same time.*

❑ *How to insert discs*

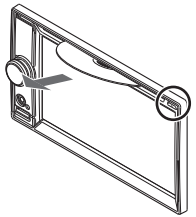
1 **Insert the disc into the loading slot with its label surface face up.**



The disc is drawn in. After a while, the disc starts playing.
When the disc is inserted a short way, it is automatically drawn in. If the disc is not drawn in, this means that a disc is already loaded.
Do not exert unnecessary force when inserting discs. First remove the disc that is already loaded, and then load the new disc.

❑ *How to remove discs*

1 ⏏



The disc is ejected.

2 **Remove the disc.**

MEMO:

- *If a disc is not removed immediately, after a while it is automatically drawn in again.*

Inserting and removing the microSD card (NX504E)

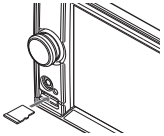
To enjoy MP3/WMA data in microSD cards, the microSD card must be loaded into the unit.

Attention

- *Insert and remove the microSD card after turning off the unit, because the microSD card might get damage.*
- *The map microSD card is already inserted into the microSD card loading slot under the slot cover.*
  If the map microSD card is removed, the unit does not function. Do not remove or insert the map microSD card except to update map information.
- *Do not touch the terminal surface of microSD cards.*

❑ *How to insert the microSD card*

1 **Insert the microSD card into the loading slot with its label surface face up.**



Firmly insert the microSD card as far as it can go.

❑ *How to remove the microSD card*

1 **Grip the microSD card with your fingers and pull it out.**

To remove the microSD card, grip it with your fingers and pull it out.

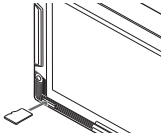
Inserting and removing the microSD card (FX504E)

Attention

- *Do not touch the terminal surface of microSD cards.*

❑ *How to insert the microSD card*

1 **Insert the microSD card into the loading slot with its label surface face down.**



Firmly insert the microSD card as far as it can go until you hear it click in place.

❑ *How to remove the microSD card*

1 **Push in the microSD card.**

The microSD card springs out slightly.

2 **Remove the microSD card.**

To remove the microSD card, grip it with your fingers and pull it out. The microSD card might spring out.

Adjusting the audio volume

1 **Turn the rotary volume knob (NX504E) or VOL+ and VOL- (FX504E).**

MEMO:

- *VOL+ or VOL- changes the volume continuously. (FX504E only)*

Switching the display screen (NX504E only)

The audio screen and map screen are switched by the following operation.

❑ *Switching to the audio screen*

1 **In the map screen NAVI AV**

The audio screen of the selected source is displayed.

❑ *Switching to the map screen*

1 **In the audio screen NAVI AV**

The map screen is displayed.

Displaying the AV control bar (NX504E only)

The AV control bar for quickly accessing audio-visual functions can be displayed. Display content differs according to the currently selected audio-visual type.

1 **AV control bar display key**

The AV control bar of the currently selected audio-visual is displayed. To hide the AV control bar, touch the bar display key.

Turning off the screen

Notice

- *While the screen is off, the voice guidance of the navigation does not work. (NX504E only)*

1 **Press the rotary volume knob (NX504E) or POWER (FX504E).**

The screen turns off.
Press the rotary volume knob (NX504E) or POWER (FX504E) again to display the screen as before.
When the audio screen is previously displayed, the audio main menu screen of the selected source is displayed.

MEMO:

- *The screen temporarily turns on when you receive a call or use the camera.*

English

English

Listening to the radio

You can enjoy both AM and FM radio on the unit. The RDS radio has a function to automatically switch to the radio if another source is selected to receive emergency information, traffic information, or a program specified by the user.

Receiving radio broadcasts

❑ *Switching between AM and FM radio*

1 MENU ▶ Tuner
Radio broadcasts are received.

2 FM1 , FM2 , FM3 , AM
Switches to the band you touch.

❑ *Automatically selecting a station*

1 MENU ▶ Tuner

2 ◀◀ or ▶▶
(Long press within 1.5 seconds)
When a receivable station is detected, that station is automatically received.
If ◀◀ or ▶▶ is long pressed for at least 1.5 seconds, the frequency switches continuously while the key is touched. When you release your finger from the key, receivable broadcast stations are automatically detected and received.

❑ *Manually selecting the station*

1 MENU ▶ Tuner

2 ◀◀ or ▶▶
Each touch switches the frequency. The frequency can also be switched by touching the frequency setting area or sliding the frequency setting bar.

Frequency setting bar

❑ *Selecting stations from the list*

Select a registered station from the list.

1 MENU ▶ Tuner

2 **Select the desired station.**
The selected station is received.

Using the radio preset channel list

❑ *What is a "preset channel"?*

You can register (preset) the frequency of a station that can be received in the area you are driving. You can receive any desired station at the touch of a button without having to adjust the frequency.
There are four preset channel lists: FM1, FM2, FM3, and AM. Up to six stations can be registered in each list.
There are two ways of registering to preset channel lists, manual and automatic.

Touch it during an FM broadcast to display a description of the broadcast that is currently being received.

Lights when the PTY or TA interrupt settings are on. → P.13

Appears on audio screens other than the RDS radio screen.

Preset channel list (Station list)

The preset channel number, name of broadcasting station, and frequency are displayed. Only the frequency is displayed for AM radio.

Broadcast details screen

Description of the content currently being received is displayed.

❑ *Using reception bands*

When the station differs according to region, reception bands can be switched and used at the touch of a button by setting preset channels in that area to each of FM1, FM2, FM3, and AM.

1 MENU ▶ Tuner

2 FM1 , FM2 , FM3 , AM
The preset channel list display is switched.

❑ *Automatically registering to lists (auto store)*

Notice

- *Stations cannot be selected during this operation. Wait for the operation to end.*

1 MENU ▶ Tuner

2 FM1 , FM2 , FM3 , AM

3 ⚙

4 Start **at [Auto Store]** ▶ OK
Receivable stations are overwritten to and registered to the current preset channel.
To cancel auto store, touch Cancel.

MEMO:

- *When auto store is stopped midway, stations received so far are not registered.*

❑ *Manually registering to lists*

1 MENU ▶ Tuner

2 **Receive the station you want to register.**

3 **Long press the channel to be overwritten in the preset channel list until you hear a sound.**
The station currently being received is overwritten to and registered to that channel.

Radio settings

1 MENU ▶ Tuner

2

3 **Set the functions using respective keys.**

PTY (Program Type):
Setting the PTY interrupt.
Use PTY Select to select whether to switch the source to radio when a station broadcasting a selected type of program is received. (Default: OFF)
Emergency information interrupts the source whether this setting is on or off.

PTY Select:
Select the type of program that will interrupt the current source when "PTY (Program Type)" is on.
Touching Seek automatically searches for and starts receiving the same type of program that is currently selected.

AF (Alternative Frequency):
Select whether to automatically search for a frequency broadcasting the same program (alternative station) if reception is bad. (Default: ON)

REG (Regional):
Select whether to automatically search for a station broadcasting the exact same content when "AF (Alternative Frequency)" is on. (Default: ON)
When it is on, a station broadcasting exactly the same content is received, but the alternative station may temporarily be unreceivable.
If it is off, alternative stations are constantly searched for, but the broadcast content may change.

TA (Traffic Announcement):
Select whether to automatically switch the source to radio when traffic information is received. (Default: OFF)

TA Volume:
Set the volume of the radio when PTY interrupt receives emergency information (alarms) or traffic information (TA). (Default: 10)

Auto Store:
→ P.12

Listening to DAB (NX504E only)

On the unit, you can enjoy CD-quality digital broadcasting by receiving DAB. DAB antenna is sold separately.

Receiving DAB

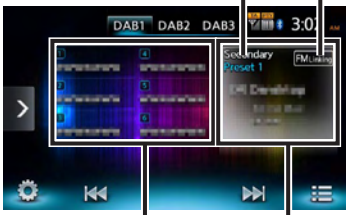
Notice

- If you connect the power-supply antenna, set "*Antena Power*" to OFF on the settings menu. → P.41

1 MENU ▶ DAB

This is displayed while receiving RDS broadcasting through "DAB -FM Linking".

This is displayed while receiving secondary service.



Preset service list

The preset service number, service label, PTY label, and ensemble label are displayed.

Tuning

❑ *Seeking a frequency*

1 MENU ▶ DAB

2 ◀◀ or ▶▶ **(Long press)**
When a receivable frequency is detected, the service is automatically received.

❑ *Manually switching a service*

All service components in the ensemble being received can be switched manually.

1 MENU ▶ DAB

2 ◀◀ or ▶▶
Each touch switches the service.

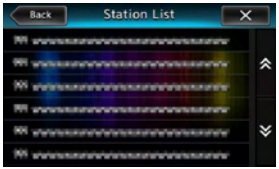
❑ *Selecting a service from the station list*

You can display a list of the services in the ensemble that is being received and select one of them.

1 MENU ▶ DAB

2

3 **Select the desired service.**



English

❑ *Selecting a service from the preset service list*

If you register services that you often use in the preset service list, you can select them from the list to start receiving them.

Preparations

- Register the service as a preset to select from the preset service list.

1 MENU ▶ DAB

2 **Select the desired service.**

Registering the service as a preset

Up to six services can be registered as presets in each band.

— ***Notice***

- *Secondary services cannot be registered as presets. Only primary services are registered even if the service is registered while the secondary service is being received.*

1 MENU ▶ DAB

2 **Receive the service you want to register.**

3 **Long press the service to be overwritten in the preset service list until you hear a sound.**
The station currently being received is overwritten to and registered to that service.

❑ *Using reception bands*

When the service differs according to region, reception bands can be switched and used at the touch of a button by setting preset services in that area to each of DAB1, DAB2, and DAB3.

1 MENU ▶ DAB

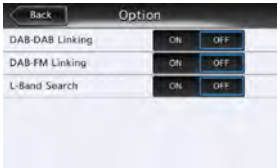
2 DAB1 , DAB2 , DAB3
The preset service list display is switched.

DAB Settings

1 MENU ▶ DAB

2 ⚙

3 **Set the functions using respective keys.**



DAB-DAB Linking:
Select whether to automatically search for an alternative DAB service if the current DAB signal reception is bad. (Default: ON)
This function does not operate while receiving a secondary service.
Even if the reception of the original service comes back, the alternative service is not switched to the original automatically.

DAB-FM Linking:
Select whether to temporarily switch the audio output to RDS if DAB signal reception is bad. (Default: ON)
This function does not operate while receiving a secondary service.
If the DAB signal reception comes back or an available DAB service is found by “DAB-DAB Linking”, the service is switched automatically.

L-Band Search:
Select whether to add L-Band to the selectable frequency range. (Default: ON)

Viewing DVDs (NX504E only)

Playing DVDs

⚠ WARNING

- **If the driver wants to view video on a DVD, he or she should always stop at a safe place before doing so.**

— ***Notice***

- *For safety’s sake, view video on a DVD only when the vehicle has stopped. While you are driving, you can enjoy only audio.*

1 **Load the DVD, or** MENU ▶ DVD / CD
The DVD loaded in the unit is played.
Menu keys are displayed by touching the screen.

The screen size and play status are displayed.

If five seconds passes with no operations, the keys displayed on screen are hidden.
To manually hide the keys, touch Back.

❑ *Stopping play*

1 **Touch the screen while playing** ▶ ■

DVD video is hidden and playing stops. (resume stop)

If ▶ is touched during a resume stop, play is resumed from the place where it was stopped.

If ■ is touched during a resume stop, play is completely stopped. (complete stop) When play is next started, the disc is played from the beginning.

❑ *Pausing*

— ***Notice*** —

- *In the case of DVD video, key operations such as pause or start sometimes are not possible in some menus. If this happens, touch* Top Menu *or* Menu *use the operation keys in the DVD menu.*

1 **Touch the screen while playing** ▶ ❚❚

Play pauses while the DVD image is displayed. If ▶ is touched during a pause, play is resumed from the place where it was stopped.

❑ *Playing the previous or next chapter*

1 ⏮ **or** ⏭

Touching ⏮ returns you to the start of the chapter, and each additional touch of ⏮ moves you to previous chapters.

❑ *Rewinding/fast forwarding*

1 **While playing,** ⏪ **(rewind) or** ⏩ **(fast forward) (long press)**

If you release your finger from ⏪, ⏩, normal play resumes.

❑ *Slow play*

1 **Touch the screen while playing** ▶ ❚❚ ▶ ⏩ **(long press)**

If you release your finger from ⏩, normal play resumes.

MEMO:

- *During slow play, "Slow play" is displayed in the Audio status display area.*

❑ *Repeat play*

This function is for repeatedly playing the chapter currently being played.

1 MENU ▶ DVD / CD

2 **Touch the screen ▶ touch Trick Play key.**

Trick Play key

3 ↻

Touch ↻Off to resume normal play.

4 **Touch the Trick Play key.**

The screen returns to the previous screen.

❑ *Playing from menus*

DVD video discs are recorded with a DVD menu (disc menu) unique to that disc. The disc menu can be used to quickly play video you want to watch, such as the main title or bonus content.

Displayed menus and operation methods differ according to each disc.

1 MENU ▶ DVD / CD

2 **Touch the screen.**

3 Top Menu **or** Menu

MEMO:

- *When "The operation is not available." is displayed, this means that there is no menu on the DVD video disc itself.*

4 **Direct touch the menu item to select it.**

Move:

This moves the operation key to the left and right of the screen.

5 **To use an operation key to select a menu item** ✥ **.**

6 **Select the menu by** ▲ **,** ◀ **,** ▶ **,** ▼ ▶ OK

The selected menu item is played.

English

❑ *Entering a title or chapter number to play a title or chapter*

1 MENU ▶ DVD / CD
2 **Touch the screen.**
3
4 Select **at [10Key Search]**
5 Title **or** Chapter
6 **Enter the number.**
7 OK
The entered title or chapter is played.

Setting DVDs

❑ *Switching the audio language/ subtitle language/angle*

Notice

- *This function is enabled only when subtitles, multiple audio, and angles are recorded to DVDs.*
- *The available languages differ according to the disc.*

1 MENU ▶ DVD / CD
2 **Touch the screen.**
3
4 Select **at [Audio/Subtitle/Angle]**
5 Angle , Audio Language , Subtitle Language
Each touch of this switches the settings of each item.
Subtitles can be hidden by setting "OFF".
MEMO:
- *"Others" is displayed when a language other than that can be set at "Setting priority language" is recorded.* → P.17

6 Back

❑ *Adjusting image quality*

1 MENU ▶ DVD / CD
2 **Touch the screen.**
3
4 Setup **at [Display Adjustment]**
5 − **or** + **of item to adjust**
Adjust the image quality while viewing the video image on screen.
6 Back
This sets the newly adjusted image setting.

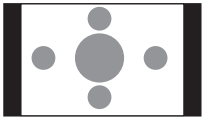
MEMO:

- *Image quality adjustments can be set for both the day and night screens.*

❑ *Switching the screen size*

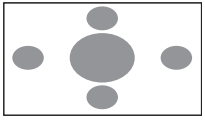
1 MENU ▶ DVD / CD
2 **Touch the screen.**
3
4 **[Display Mode] settings key (default: Full)**
5 **Select the screen size.**

Normal:



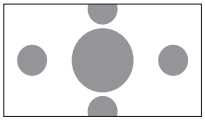
Video is displayed in the center of the screen with its aspect ratio held intact. When the size of the video and screen differ, excess parts of the screen are displayed in black.

Full:



The video is displayed to fit the entire screen. When the size of the video and screen differ, the aspect ratio of the video is displayed altered.

Cinema:



This is used when displaying cinema scope size or vista size video. When the size of the video and screen differ, the horizontal size of the video is displayed to match the horizontal and vertical size of the screen. Unused parts at the top and bottom are displayed in black.

6 Close

7 Back

❑ *Setting the monitor size*

— ***Notice***

- *The recorded monitor size differs according to each disc. Even if the monitor size is set to "Pan Scan" or "Letter Box", video may be automatically played at one of these settings depending on the disc.*

1 MENU ▶ DVD / CD

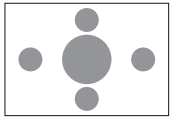
2 **Touch the screen.**

3 ⚙

4 **[Sizing Monitor] settings key (default: WIDE)**

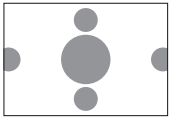
5 **Select the monitor size.**

WIDE:



Video is displayed to fit in the entire screen. When the video and screen aspect ratios are different, video is reshaped and displayed. No parts of the video are clipped.

Pan Scan:



The video is displayed with its height aligned in the vertical direction of the screen. When the video and screen aspect ratios are different, video is displayed with its left and right sides clipped.

Letter Box:

The video is displayed with its width aligned in the horizontal direction of the screen. When the video and screen aspect ratios are different, black bands are displayed at the top and bottom of the screen.

6 Close

7 Back

❑ *Setting priority language*

You can set the menu language, audio language, and subtitle language that are given priority when something is playing.

— ***Notice***

- *The available languages differ according to the disc.*
  This setting is for the language to be given priority while playing DVDs. Video is not necessarily played with the selected language.

1 MENU ▶ DVD / CD

2 **Touch the screen.**

3 ⚙

4 **[Default Menu Language] , [Default Audio Language], and [Default Subtitle Language] settings keys (default: English)**

Touch any key to open the list of languages and you can select the language to give priority to while the video is playing.
You can select English, French or Spanish as the language. At Default Subtitle Language, you can select "OFF" to hide subtitles.

5 **Select the language.**

6 Close

7 Back

❑ *Setting the parental level*

What are parental levels?

The parental level setting is for applying restrictions to children viewing DVDs. Some DVD videos have parental level settings. There are eight levels 1 through 8, with stricter viewing restrictions being applied as the number becomes smaller. Discs set with viewing restrictions sometimes cannot be played depending on the parental level setting made on the unit.
Example: When the viewing restriction of the DVD is parental level 3
The DVD can be played only when the parental level set on the unit is level 3 to 8. If an attempt is made to play a DVD when the parental level set on the unit is level 1 to 2, then a warning message "Change parental level" will be displayed.
The default parental level is "OFF" which means that no viewing restrictions are applied to any DVD videos.

— ***Notice***

- *A password is required to set the parental level. Viewing restrictions sometimes do not function successfully if the country code is not set since parental level differs according to country.* →**P.50**
- *The parental level is written on the DVD package, for example. Viewing restrictions are not applied to discs whose package does not indicate any parental level even if parental level is set.*
- *This setting is not required if viewing restrictions are not to be applied.*

English

Setting and changing passwords

Setting or changing the password is required for setting viewing restrictions.

1 MENU ▶ DVD / CD

2 **Touch the screen.**

3 ⚙

4 Change **at [Parental Control Password]**

5 **Enter the password** ▶ OK
"••••" is displayed for the entered password. (Default: 0000)

6 **Enter the new password** ▶ OK

7 **Enter the same password again** ▶ OK
The new password is set.

Setting the parental level

1 MENU ▶ DVD / CD

2 **Touch the screen.**

3 ⚙

4 **[Parental Level] settings key (default: OFF)**

5 **Enter the password** ▶ OK

6 **Select the parental level** ▶ Set
The parental level is set.
Viewing restrictions on all parental levels for DVD video are canceled by touching OFF.

❑ *Setting the country code*

The country code is the code for identifying countries. The parental level differs according to country. To use the parental level correctly on the unit, the country code of the DVD must be set. → P.50

1 MENU ▶ DVD / CD

2 **Touch the screen.**

3 ⚙

4 **[Country Code] settings key (default: 7166 (United Kingdom))**

5 **Enter the country recorded on the DVD or the country code of the region.**

6 OK

Listening to music on CDs or discs (MP3/WMA) (NX504E only)

On the unit, you can enjoy discs containing MP3/WMA format music data in addition to regular music CDs.

Playing discs

Notice

- *While you are driving, available items are limited.*

When the following discs are played, the artist name, track title and other information is displayed.

- Discs containing CD-TEXT
- Discs containing ID3 tags and WMA tags

When discs other than the above are played, only a number such as "Track 01" is displayed.

MEMO:

- *When a non-stop CD (CD comprising tracks joined together) is played, a silent period of a few seconds occurs between tracks.*

❑ *Playing CDs*

1 **Load the CD, or** MENU ▶ DVD / CD
The CD loaded in the unit is played.
To pause or resume play, touch ▶/II.

The track name, artist name and album name currently being played are displayed.

❑ *Playing MP3/WMA discs*

1 **Load the MP3/WMA disc, or** MENU ▶ DVD / CD
The disc loaded in the unit is played.
To pause or resume play, touch ▶/II.
DivX contents are played if any are on the disc. → P.19

The track name, artist name, album name, and folder name currently being played are displayed.

❑ *Rewinding/fast forwarding*

1 **While playing, ⏮ (rewind) or ⏭ (fast forward) (long press)**
If you release your finger from ⏮, ⏭, normal play resumes.

❑ *Playing the previous/next track*

1 **While playing, ⏮ or ⏭**
Touching ⏮ returns you to the start of the track, and each additional touch of ⏮ moves you to the previous track.

❑ *Playing the previous/next folder (only when playing MP3/WMA)*

1 **While playing, ▲, ▼**
Each touch of ▲, ▼ moves you to the previous or next folder, and the first track in the folder is played.

❑ *Playing from the folder list/track list*

1 MENU ▶ DVD / CD

2 ☰

3 **(MP3/WMA discs)**
Select the folder currently being played.
The track list is displayed.
When a folder other than the one currently being played is selected, the folder list remains displayed and play begins from the first track of the selected folder. To display the track list, select the same folder again.

(CD discs)
The track list is displayed.

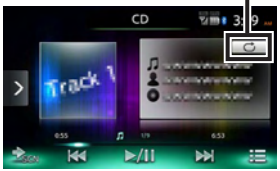
4 **Select the track.**
Play begins from the selected track.

❑ *Repeat/shuffle play*

1 MENU ▶ DVD / CD

2 **Touch the Trick Play key ▶ select the desired item.**

Trick Play key



✻ The above screen is for playing music CDs.

🔁:
Only the track currently being played is repeated.

🔁:
All tracks in the folder currently being played are repeated. (MP3/WMA only)

🔁:
All tracks in the disc are repeated.

🔀:
All tracks in the disc are played at random.

🔀:
All tracks in the folder currently being played are played at random. (MP3/WMA only)

3 **Touch the Trick Play key.**
The screen returns to the previous screen.

❑ *Scan play*

Ten seconds of the first part of each track is played.

1 MENU ▶ DVD / CD

2 **Touch SCN (scan key).**
Touching the scan key again cancels scan play, and the mode returns to the repeat all tracks mode.

Viewing DivX content (NX504E only)

Viewing DivX content

A feature of DivX is that long videos can be compressed to small files with high image quality kept intact.
The copyright of DivX content is protected, so check the status of the device that is playing and the viewing count limit.
Also, to view DivX VOD (Video-On-Demand) content, the device that is playing must be registered as a DivX certified device.
Register DivX certified devices by the following procedure: For details, browse the Rovi Corporation website.

1. **Acquire a DivX account on your personal computer, for example.**
2. **Check the registration code on the unit. → P.41**
3. **Register the registration code of the unit to the DivX account on your personal computer.**
4. **Write the activation file to disc.**

MEMO:

- *Content exceeding the viewing count limit cannot be played. In this case, move to the next track by OK.*

Notice

- *DivX Certified® to play DivX® video, including premium content.*

English

Playing DivX content

⚠ WARNING

- **If the driver wants to view video on a DVD/CD, he or she should always stop at a safe place before doing so.**

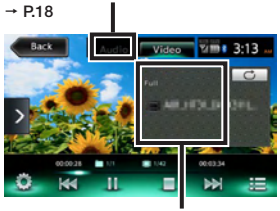
Notice

- *For safety's sake, view video on a DVD/CD only when the vehicle has stopped. While you are driving, you can enjoy only audio.*

1 **Load the DivX disc, or MENU ▶ DVD / CD**

The DVD/CD loaded in the unit is played.
The registration code must be set when viewing is not possible as it is because of DivX certification limits.
Menu keys are displayed by touching the screen.

If the disc contains MP3 or WMA audio files, switch the mode to play them.
→ P.18



The file name, screen size and status of play for the current song are displayed.

If five seconds passes with no operations, the keys displayed on screen are hidden.
To manually hide the keys, touch Back.

You can perform the following operations on DivX discs. Methods of operation are the same as those for DVD/CDs.

- Stopping/pausing play → **P.15**
- Playing the previous/next track → **P.15**
- Rewinding/fast forwarding → **P.15**
- Playing from the folder list/track list → **P.19**
- Repeat play → **P.15**
- Entering a title number to play a title → **P.16**
- Switching the subtitle display/audio → **P.16**
  ✻ In the DivX mode, the subtitle and audio languages are not displayed.
- Adjusting image quality → **P.16**
- Switching the screen size → **P.16**

Listening to microSD card/ USB memory files

Music saved on your microSD cards or USB memory can be played on the unit.

Playing microSD card/ USB memory

Audio files in MP3/WMA format that have been edited on a personal computer can be played using a microSD card or USB memory.

Attention

- *Do not leave USB memory inside the vehicle. The inside of the vehicle gets hot under the blazing sun, for example, and might cause them to malfunction.*
- *Do not get onto or place objects on USB memory while they are connected. Doing so might cause them to malfunction.*

Notice

- *USB memory cannot be used when an iPod is connected.*

❑ *Playing microSD card or USB memory*

1 **Connect the microSD card or USB memory.**

2 **MENU ▶ SD or MENU ▶ USB / iPod**

The files on the microSD card or USB memory are played.
To pause or resume play, touch ▶/II.

The song title, artist name, album name, and folder name currently being played are displayed.

✻ The above screen is for playing a microSD card.

MEMO:

- *Files on the microSD card or USB memory are played in file name order. To change the play order, prefix the file names with a number.*

❑ *Rewinding/fast forwarding*

1 **While playing, ◀◀ (rewind) or ▶▶ (fast forward) (long press)**

If you release your finger from ◀◀, ▶▶, normal play resumes.

❑ *Playing the previous/next track*

1 **While playing, ⏮ or ⏭**
Touching ⏮ returns you to the start of the track, and each additional touch of ⏮ moves you to the previous track.

❑ *Playing from the folder list/ track list*

1 MENU ▶ SD or
MENU ▶ USB / iPod

2 📁

3 **Select the folder currently being played.**
The track list is displayed.
When a folder other than the one currently being played is selected, the folder list remains displayed and play begins from the first track of the selected folder. To display the track list, select the same folder again.

4 **Select the track.**
Play begins from the selected track.

❑ *Playing the previous/next folder*

1 **While playing, 📁▲ , 📁▼**
Each touch of 📁▲ , 📁▼ moves you to the previous or next folder, and the first track in the folder is played.

❑ *Repeat/shuffle play*

1 MENU ▶ SD or
MENU ▶ USB / iPod

2 **Touch the Trick Play key ▶ select the desired item.**

Trick Play key

🔁: All tracks are repeated.

🔁: All tracks in the folder currently being played are repeated.

🔁: Only the track currently being played is repeated.

🔀: Folders are selected at random from all folders, and tracks selected at random from that folder are played.

🔀: All tracks in the folder currently being played are played at random.

3 **Touch the Trick Play key.**
The screen returns to the previous screen.

❑ *Scan play*

Ten seconds of the first part of each track is played.

1 MENU ▶ SD or
MENU ▶ USB / iPod

2 **Touch SCN (scan key).**
Touching the scan key again cancels scan play, and the mode returns to the repeat all tracks mode.

Listening to iPod/viewing iPod video

Compatible iPod models

iPod/iPhone can be connected by the special connector cable (CCA-750) separately sold or Lightning-USB cable supplied with iPod/iPhone.
Some functions are restricted depending on the iPod model and software version.
For information about compatible models, refer to the following web site:
www.clarion.com

Attention

- *Be sure to remove the iPod after the vehicle's engine key is turned to the "OFF" position. The power of iPod supply might run down if it is not turned off while still connected to the unit.*

English

Notice

- *The series of iPad® is not supported.*
- *Not all iPod operations are guaranteed.*
- *When connecting an iPod to the unit, do not use iPod headphones or other accessories.*
- *The iPod might not operate correctly when the iPod model's track repeat function is set.*
- *The iPod might not operate correctly when the iPod model's shuffle function is set. In this case, cancel the shuffle function before using the iPod.*
- *When there are lots of tunes to play, the titles or list sometimes cannot be displayed depending on the iPod model.*
- *Audio sometimes is not output in the iPod mode when Bluetooth Audio is playing or hands free calls are being made while the iPod touch® or iPhone is still connected via Bluetooth. Perform operations from the iPod touch or iPhone main unit, and switch the settings (audio output) from Bluetooth (CAR-BT) to the Dock connector. Also, remove the iPod from the unit and reconnect it. For details, refer to the User's Manual for the connected device.*
- *Audio is sometimes not output from the USB-connected iPod touch or iPhone if the audio device is connected via Bluetooth. In this case, switch the Bluetooth connection mode to other than [Music Only] / [Handsfree + Music], and reconnect iPod touch or iPhone.* → P.28
- *If the Podcast data is not downloaded correctly, Podcast might not be played.*

MEMO:

- *When iPod operation is stopped, operations sometimes become possible by selecting a tune or video from the category list.*
- *If an error message is displayed, remove the iPod from the unit and reconnect it.*
- *If the iPod becomes inoperable, reset the iPod main unit and reconnect it.*

  Reset methods (examples)

  - *iPod:*

    Simultaneously hold down the "Center" and "Menu" buttons until the Apple logo is displayed.
  - *iPod touch:*

    Simultaneously hold down the "Sleep/ Cancel sleep" and "home" buttons until the Apple logo is displayed.

  For details on how to reset the iPod, check in the User's Manual for the iPod.

  ✻ *If operation is not remedied by resetting and reconnecting the iPod, reset the iPod, check operation of the iPod in an unconnected state and then try connecting it again.*

Playing iPod models

Audio data and video images in connected iPod models can be enjoyed on the unit.

Attention

- *While you are driving, do not operate the iPod main unit.*
- *Do not leave an iPod inside the vehicle. The inside of the vehicle gets hot under the blazing sun, for example, and might cause them to malfunction.*
- *Do not get onto or place objects on iPod models while they are connected. Doing so might cause them to malfunction.*
- *Place iPod models at a safe place before starting to use them.*

Notice

- *You cannot operate from the iPod once it is connected to the unit.*
- *While you are driving, available items are limited.*

MEMO:

- *If the iPod becomes inoperable, reset it. For details on how to reset the iPod, check in the User's Manual for the iPod.*
- *When an iPod that is playing an audio file is connected to the unit, play continues from the tune that is being played. When a video-compatible iPod is connected to the unit while video is being played, the point in the video may differ depending on the iPod. To watch video, select the video file again.*

❑ *Listening to iPod models*

Preparations

(For the device with 30-pin connector)

- Connect the CCA-750 (sold separately) to the USB connector.

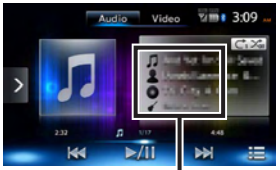
(For the device with Lightning™ connector)

- Use the Lightning-USB cable supplied with iPod/iPhone.

1 MENU ▶ USB / iPod

Tracks in the iPod are played.

To pause or resume play, touch ▶/II.



The song title, artist name, album name, and genre name currently being played are displayed.

❑ *Watching iPod video*

⚠ WARNING

- **If the driver wants to view iPod video, he or she should always stop at a safe place before doing so.**

Preparations

(For the device with 30-pin connector)

- Connect the CCA-750 (sold separately) to the USB connector.
- Connect the video jack of CCA-750 (sold separately) to the VTR cable.

(For the device with Lightning connector)

- Use the Apple Lightning-Digital AV adaptor (sold separately) and the HDMI cable (sold separately).

— ***Notice***

- *For the device with Lightning connector, the video in the iPod cannot be played from* USB / iPod *on the main menu screen. Please use the Smart Access linking-compatible application "Media4car".*
- *For safety's sake, view iPod video only when the vehicle has stopped. While you are driving, you can enjoy only audio.*
- *iPod touch with software version older than 2.0 does not support playing video.*
- *Video images sometimes are not displayed while playing iPod videos depending on the version of the OS. In this case, this symptom can be remedied by setting the music application to the foreground on the iPod.*

1 MENU ▶ USB / iPod

iPod video is played.

Menu keys are displayed by touching the screen.

To pause or resume play, touch ▶/II.

The track name currently being played is displayed.

If five seconds passes with no operations, the keys displayed on screen are hidden. To manually hide the keys, touch Back.

MEMO:

- *When audio is played, video images in iPod video are switched to manually.*

❑ *Rewinding/fast forwarding*

1 **While playing, ⏮ (rewind) or ⏭ (fast forward) (long press)**

If you release your finger from ⏮, ⏭, normal play resumes.

❑ *Playing the previous/next track/chapter*

1 **While playing, ⏮ or ⏭**

The previous or next chapter is played from the beginning when playing the video that have chapters.

Touching ⏮ returns you to the start of the track, and each additional touch of ⏮ moves you to the previous track.

❑ *Repeat/shuffle play*

— ***Notice***

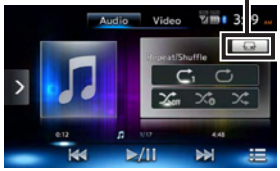
- *Repeat play is sometimes not possible depending on the iPod model.*
- *If the iPod is switched to the video mode during shuffle play, shuffle play is automatically canceled.*

1 MENU ▶ USB / iPod

2 Audio or Video

3 **Touch the Trick Play key ▶ select the desired item.**

Trick Play key



(Shuffle play (audio only))

Off:
Cancels shuffle play.

:
Plays the entire album at random. Tracks in the album are played in order.

:
All tracks in the album currently being played are played at random.

(Repeat play)

:
Only the track currently being played is repeated.

:
All tracks in the entire album are repeated.

Play begins with the selected operation.

4 **Touch the Trick Play key.**

The screen returns to the previous screen.

❑ *Playing under specified conditions*

You can search for tracks that match specific conditions and play these.

— ***Notice***

- *When the playlist is arranged in a multi-layer hierarchy, unclear items might be displayed depending on the depth of the hierarchy.*

1 MENU ▶ USB / iPod

2 Audio or Video

3

4 **Select the desired item.**

MEMO:

- *Selectable items (examples)*

  (Audio)

  Tracks/Playlists/Artists/Albums/ Others (Genres/Composers/ Audiobooks/Podcasts)

  (Video)

  Video Playlist/Others (TV programs/ Rentals, etc.)

Similar operations are repeated until the track list is displayed.

5 **Select the track.**

The selected track starts playing.

Touching ✕ returns the screen to the screen in step 3.

Setting iPod (video only)

❑ Adjusting the image quality of iPod video

Preparations

- Before adjusting the display, select night or day with Day/Night Mode on the Settings menu. → P.41

1 MENU ▶ USB / iPod

2 Video

3 ⚙

4 Setup at [Display Adjustment]

5 − or + of item to adjust
Adjust the image quality while viewing the video image on screen.

6 Back
This sets the newly adjusted image setting. Image quality adjustments can be set for both the day and night screens.

Listening to Bluetooth audio

To listen to Bluetooth audio

Register audio devices compatible with Bluetooth to the unit so that music can be played.

Preparations

- When using Bluetooth Audio for the first time, the audio device must be registered (paired) with the unit. → P.28

Attention

- *Do not leave portable devices inside the vehicle. The inside of the vehicle gets hot under the blazing sun, for example, and might cause them to malfunction.*

Notice

- *Use audio devices that are compatible with the Bluetooth protocol. Note, however, that with some types of Bluetooth Audio device the unit sometimes cannot be used or available functions are sometimes limited. When a function is not supported, its button or key cannot be pressed. Or, a message to the effect that operation is not possible will be displayed. Note, however, that a message to the effect that operation is not possible sometimes is not displayed depending on the audio device.*
- *The unit sometimes cannot be connected or skipping sometimes happens depending on distance and where the Bluetooth Audio is installed. We recommend situating audio devices where the reception is as good as possible.*
- *Pairing cannot be executed while you are driving.*
- *There will be no audio output while telephone related functions or online functions are being executed using a Bluetooth Audio compatible cellphone.*
- *Skipping sometimes occurs while an iPhone is playing as Bluetooth Audio and the Bluetooth screen is displayed on the iPhone. If this happens, audio is played normally by closing the Bluetooth screen display.*
- *With Bluetooth Audio, an automatic connection from the unit is not performed. Operate the audio device you want to connect to establish the connection to the unit.*

MEMO:

- *For details on Bluetooth Audio devices, refer to the respective User's Manual.*
- *Up to five Bluetooth Audio devices including hands free devices can be paired. When five devices are already paired, one device must be deleted from the pairing information and a new device must be registered.*
- *Some Bluetooth Audio compatible cellphones automatically connect audio profiles from the cellphone while at the same time connecting hands free profiles.*
- *If there is no audio output even when the audio device is connected, disconnect the profile from the device and reconnect it.*

Playing Bluetooth audio

Notice

- *With some types of Bluetooth Audio devices, operation such as playing, pausing, rewinding, and fast forwarding are sometimes not possible from the unit. If this happens, operate from the Bluetooth Audio device. For details, refer to the User's Manual for the Bluetooth Audio device.*
- *With some Bluetooth Audio devices, play does not start automatically sometimes. If this happens, either touch ▶/II, or operate the Bluetooth Audio device to start playing.*

❑ Playing Bluetooth Audio

1 MENU ▶ BT Audio
Bluetooth Audio is played.
To pause or resume play, touch ▶/II.

❑ Rewinding/fast forwarding

1 While playing, ⏮ (rewind) or ⏭ (fast forward) (long press)
If you release your finger from ⏮, ⏭, normal play resumes.

❑ Playing the previous/next track

1 While playing, ⏮ or ⏭
Touching ⏮ returns you to the start of the track, and each additional touch of ⏮ moves you to the previous track.

❑ *Playing from the track list*

— ***Notice***

- *For this function, only Bluetooth Audio that is compatible with AVRCP Ver.1.4. can be used. With some types of Bluetooth Audio devices, this function cannot be used.*
- *When the Bluetooth Audio player that is playing the audio is not started up, list operations sometimes are not possible. Start up the player and try the operation again.*
- *With some types of Bluetooth Audio devices, sometimes cannot be touched.*

1 MENU ▶ BT Audio

2

3

4 **Select the track.**
Play begins from the selected track.

❑ *Playing under specified conditions*

You can search tracks to be played from folders or categories and play them.

— ***Notice***

- *For this function, only Bluetooth Audio that is compatible with AVRCP Ver.1.4. can be used. With some types of Bluetooth Audio device, this function cannot be used.*
- *When the Bluetooth Audio player that is playing the audio is not started up, list operations sometimes are not possible. Start up the player and try the operation again.*

1 MENU ▶ BT Audio

2

3

4 **Select the desired item.**
Available items differ according to the type of Bluetooth Audio device. Similar operations are repeated until the track list is displayed.

5 **Select the track.**
Play begins from the selected track. Touching ✕ returns the screen to the screen in step 2.

❑ *Repeat/shuffle play*

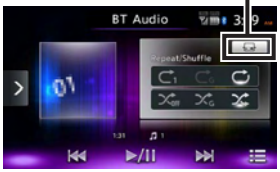
— ***Notice***

- *For this function, only Bluetooth Audio that is compatible with AVRCP Ver.1.3. or later can be used. With some types of Bluetooth Audio device, shuffle play sometimes is not possible.*

1 MENU ▶ BT Audio

2 **Touch the Trick Play key ▶ Select the desired item.**

Trick Play key



: Only the track currently being played is repeated.

: All tracks in the group currently being played are repeated.

: All tracks in the Bluetooth Audio device are repeated.

: All song shuffle or group shuffle is canceled.

: All tracks in the group currently being played are played at random.

: All tracks in the Bluetooth Audio device are played at random.

3 **Touch the Trick Play key.**
The screen returns to the previous screen.

Viewing connected external devices (AUX)

Audio and video from external devices connected to the AUX terminal can be played on the unit by switching the audio mode to AUX1 or AUX2.

⚠ WARNING

- **For your safety, the driver should not watch the video or operate the controls while driving. Please note that watching and operating the video while driving are prohibited by law in some countries.**

Preparations

● The following cables are required for connecting external devices to the unit.
(When using AUX1)
To listen to audio
- Commercially available 3.5 mm stereo mini plug cable

To watch video
- Specialized front VTR input cable (CCA-772), sold separately

✻ Any cable other than the one noted above may not operate normally.

(When using AUX2)
- VTR cable

— ***Attention***

- *Do not leave connected external devices inside the vehicle. The inside of the vehicle gets hot under the blazing sun, for example, and might cause them to malfunction.*

English

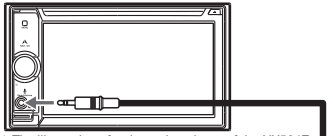
English

Notice

- *For your safety, this system has a safety function which turns off the picture when the car is moving, so only the audio can be heard. The picture can only be watched when the car is stopped and the parking brake is applied.*

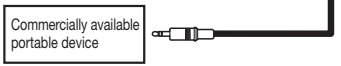
Connecting external devices

<Connection example> When using AUX1

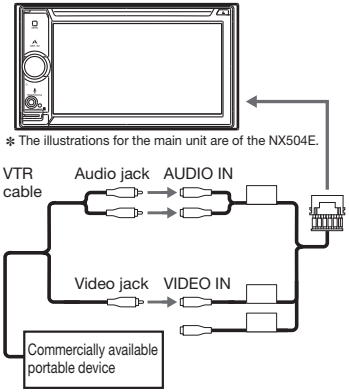


✻ The illustrations for the main unit are of the NX504E.

(Example: For audio)
3.5 mm AV mini plug cable
(commercially available product)



<Connection example> When using AUX2



✻ The illustrations for the main unit are of the NX504E.

MEMO:

- *Also refer to the User's Manual for the connected external device.*
- *External input connector jack*
  - *A 3.5 mm dia. stereo mini plug can be connected. Thoroughly read the User's Manual for the audio cable (without resistor) and the device to be connected.*
  - *Use the battery, etc. provided with the device as the power supply for that device. Using an external device while it is being charged by the accessory socket on the vehicle sometimes causes noise.*
- *The screen momentarily turns black when switching between the audio and video modes. However, this is not a malfunction.*

Listening to audio from external devices

1. MENU ▶ AUX1 or AUX2
2. **Touch the screen** ▶ Audio
3. **Operate the external device.**
   Audio is played.

Watching video from external devices

1. MENU ▶ AUX1 or AUX2
2. Video
3. **Operate the external device.**
   Video and audio are played.

MEMO:

- *While an iPhone is connected with Smartphone Linking, the smartphone application screen is displayed though it cannot be operated by touch operations. When using Smartphone linking, see "Using Smart Access."* → **P.31**

Setting external device listening

❑ Compensating for volume differences

Compensate for volume difference that occurs depending on the type of connected external device.

1. MENU
2. AUX1 or AUX2
3. **Touch the screen** ▶
4. **[Audio Level] settings key (default: Mid)**
5. **Select the audio level.**
6. Close
7. Back
   The level is adjusted to the adjusted volume.

❑ Adjusting image quality

Preparations

- Before adjusting the display, select night or day with Day/Night Mode on the Settings menu. → **P.41**

1. MENU
2. AUX1 or AUX2
3. **Touch the screen** ▶
4. Setup **at [Display Adjustment]**
5. **−** or **+** **of item to adjust**
   Adjust the image quality while viewing the video image on screen.
6. Back
   This sets the newly adjusted image setting. Image quality adjustments can be set for both the day and night screens.

❑ Switching the screen size

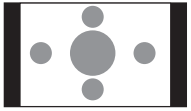
Notice

- *When the screen size is switched, the image sometimes appears different from the original video image.*

1. MENU
2. AUX1 or AUX2
3. **Touch the screen** ▶
4. **[Display Mode] settings key (default: Full)**

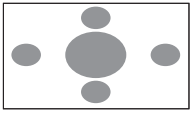
5 **Select the screen display size.**

Normal:



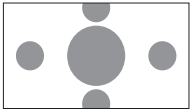
Video is displayed in the center of the screen with its aspect ratio held intact. When the size of the video and screen differ, excess parts of the screen are displayed in black.

Full:



The video is displayed to fit the entire screen. When the size of the video and screen differ, the aspect ratio of the video is displayed altered.

Cinema:



This is used when displaying cinema scope size or vista size video on a regular TV. When the size of the video and screen differ, the horizontal size of the video is displayed to match the horizontal and vertical size of the screen. Unused parts at the top and bottom are displayed in black.

6 Close

7 Back

The screen is displayed at the selected size.

Registering Bluetooth-compatible devices

Bluetooth-compatible devices such as cellphones can be registered so that incoming and outgoing telephone calls and audio can be played from the unit.
If you use a Bluetooth-compatible cellphone, you can use hands free functions using Bluetooth without connecting a cable.
For more information about connectible cellphones, visit Clarion's web site.
www.clarion.com

Preparations

- To use Bluetooth, the Bluetooth functions of the unit must be turned on. → **P.40**
  When using a Bluetooth-compatible device, the device must be registered (paired) with the unit. → **P.28**

Notice

- *While you are driving, selectable items are limited.*

What is "Bluetooth"?

Bluetooth is a short-range wireless communications technology for portable information devices advocated by the Bluetooth SIG trade association.
Communications between Bluetooth-compatible devices is performed using radio waves in the 2.4 GHz band.
Cellphones and audio devices that support Bluetooth can be connected for use on the unit.

To use each of the Bluetooth functions, you will need a cellphone that supports the following profiles:

Hands free calling
HFP (Hands-Free Profile)

Phonebook forwarding
OPP (Object Push Profile)

Phonebook forwarding and telephone call log, etc. synchronization
PBAP (Phone Book Access Profile)

Audio
A2DP (Advanced Audio Distribution Profile), AVRCP (Audio/Video Remote Control Profile)

Even if devices support Bluetooth profiles, phenomena sometimes occur where devices cannot connect to each other or display and operation are different because of their characteristics or specifications.

English

Registering Bluetooth-compatible devices (pairing)

When using a Bluetooth-compatible device for the first time, the device must be registered (paired) with the unit.

— ***Notice***

- *Pairing cannot be executed while you are driving.*
- *Also, pairing sometimes cannot be executed if the Bluetooth function is not enabled on the Bluetooth-compatible device, too. For details, refer to the User's Manual for the Bluetooth-compatible device.*
- *During hands free operations (making outgoing calls, taking incoming calls, telephone calls), connection (telephone calls, communications) with other Bluetooth-compatible devices and pairing are not possible. Also, during hands free operation, there is no audio output.*

1 MENU ▶ ⚙ ▶ ᛒ

2 Set **at [BT Devices Connection]**

3 Add **for the device you want to add**

4 **Select the Bluetooth connection mode.**

MEMO:

- *Functions that you can use vary depending on the Bluetooth connection method. For details, refer to* **P.53.**

Handsfree + Smartphone Linking:
Select this when using the cellphone as a hands free phone and for Smartphone linking.

Handsfree + Music:
Select this when using the cellphone as a hands free phone and for Bluetooth Audio.

Handsfree Only:
Select this when using the cellphone only as a hands free phone.

Music Only:
Select this when using the cellphone only for Bluetooth Audio.

Smartphone Linking Only:
Select this when using the cellphone for Smartphone linking.

5 **Select "CAR-BT" (default) from the Bluetooth-compatible device, and enter the PIN "1234" (default).**

The Bluetooth-compatible device searches for the unit to complete pairing.

MEMO:

- *The [Connect with Bluetooth] setting on the Settings screen of the portable device changes to on. Confirm that this setting is on to use Bluetooth functions.*

When MENU ▶ Phone is next touched, the screen changes to the telephone number entry screen.

MEMO:

- *Entry of the PIN is not required on some Bluetooth-compatible devices. Also, on some models, the confirmation screen is displayed whether or not the PIN entered on the unit is the same as the PIN on the device. When registering a device, follow the on-screen instructions.*
- *After pairing is complete, the connection may need to be confirmed on the Bluetooth-compatible device.*
- *For details on Bluetooth operation on the Bluetooth-compatible device, refer to the User's Manual for the device.*
- *The Bluetooth-compatible device's reception sensitivity and remaining battery power as displayed on the unit may not match the actual values of the device.*
- *Up to five Bluetooth-compatible devices can be paired. To pair a sixth device, an already registered Bluetooth-compatible device must be deleted.* → **P.29**
- *For details on how to register Bluetooth-compatible devices to cellphones, refer to the User's Manual for the cellphone.*
- *The name of the device and the PIN can be changed.*
- *Connections sometimes are not made automatically if the Bluetooth-compatible device is not set as "Waiting for connection" or the device is not in a standby state. For details, refer to the User's Manual for the device.*
- *Reconnection is automatically retried if the connection is broken, such as if the Bluetooth-compatible device is too far away.*
- *Problems on some Bluetooth-compatible devices may cause communication errors or prevent operations from being performed or displayed properly. If this happens, switch the Bluetooth functions off then back on again. (Default: Off)*
- *When switching the Bluetooth functions on the Bluetooth-compatible device off then back on again, do the same for the Bluetooth functions on the unit.*
- *When Bluetooth functions are turned off, Bluetooth functions on the unit cannot be operated. Also, connection to and operations of the unit from Bluetooth-compatible devices are no longer possible.*

Switching the connected Bluetooth-compatible device

When two or more Bluetooth-compatible devices are registered to the unit, the device to be connected can be switched.

— ***Notice***

- *Though up to five Bluetooth-compatible devices can be paired, only one can be connected to at any one time.*

1 MENU ▶ ⚙ ▶ Bluetooth

2 **Set at [BT Devices Connection]**

3 **Confirm that [Connect with Bluetooth] is turned "ON".**

4 **Select for the device to be switched.**

5 **Select the Bluetooth connection mode.**

MEMO:

- *Switching the Bluetooth-compatible device that is currently in use also switches the device information, such as incoming/outgoing call logs, to the selected device.*
- *When a Bluetooth-compatible device is restarted, it may not connect automatically, depending on the type of device. Use this procedure to connect the selected device if it is not done automatically.*

Deleting registered Bluetooth-compatible devices

You can delete the information of paired Bluetooth-compatible devices.

1 MENU ▶ ⚙ ▶ Bluetooth

2 **Set at [BT Devices Connection]**

3 **for the device you want to delete.**

4 OK

MEMO:

- *When the registration information of a cellphone is deleted, the incoming/outgoing calls log and phonebook information of the corresponding cellphone also are deleted.*
- *If the unit is turned off while deleting information registered for a Bluetooth-compatible device, the information sometimes cannot be deleted. If this happens, turn the unit on and try deleting the information again.*

Using cellphones

— ***Attention***

- *Do not leave cellphones inside the vehicle. The inside of the vehicle gets hot under the blazing sun, for example, and might cause them to malfunction.*

Screen during a telephone call

The following screen is displayed during a telephone call:

Screen during a telephone call

: This displays the option screen.

: This mutes the phone outgoing volume.

: This switches to telephone calls on the cellphone unit.
Private call operation is sometimes not switched to depending on the cellphone you are using.

: This ends the telephone call.

: When the number entry screen is displayed, enter the numbers for the password, etc. during the telephone call. Touching i returns the screen to the previous screen.

Pressing NAVI AV during a telephone call switches the screen as follows. With this screen displayed as it is, operations such as searching for a destination can be performed. (NX504E only)

Map screen during a telephone call

The call is disconnected and the current position is displayed.
Gerrard Street
Trafalgar Square
The Mall
Strand
Craven Street
8:22
The call time, name of other party or telephone number is displayed.
This switches to telephone calls on the cellphone unit.
This toggles the telephone control bar between display and hide.

MEMO:

- *With some cellphone models, incoming calls are automatically rejected when there is an incoming call from a third party during a telephone call. The incoming calls log is not saved.*
- *When the vehicle moves outside the cellphone service area during a telephone call (i.e.to an area where radio waves cannot be received), the line will be disconnected.*
- *During hands free telephone calls, the audio source cannot be switched or selected.*
- *It may not be possible to make or receive calls unless the cellphone is in standby.*

Entering a number to make a call

Attention

- *While you are driving, you cannot enter telephone numbers to make a call. Always stop at a safe location before making a telephone call.*

Notice

- *Always input the area code when calling a land-line phone.*
- *With some cellphones, you may not be able to redial immediately after hanging up a call you dialed. Wait a while before dialing the number again.*

1 MENU ▶ Phone

2 **Enter the telephone number.**

3

The telephone number is dialed and the other party is called.

:
The call is stopped if this is touched while you are calling the other party.

4 **To end a telephone call**

This disconnects the call and returns you to the screen before you made the call.
The telephone number you called, name (when registered to the phonebook) and dial date/time are saved as the outgoing calls log. Only the latest call log is shown for the same phone numbers.

Making calls from the outgoing/ incoming calls log

Notice

- *You cannot make calls from the incoming calls log when the incoming call was from a withheld number.*

1 MENU ▶ Phone

2

3 or

4 **Select the other party you want to dial.**

5 Call

The registered telephone number is dialed and the call is made.

MEMO:

- *The latest ten calls recorded on the unit are displayed in the incoming/outgoing calls log.*
- *In the case of telephone numbers registered to the phonebook, the registered names are displayed.*

Deleting the incoming/outgoing calls log

1 MENU ▶ Phone

2

3 or

4 Delete All

5 OK

The entire outgoing call log or incoming call log is deleted.

Registering a phonebook

You can register the phonebook on a cellphone in advance to the unit, and make calls from there.
To register the phonebook on a cellphone, use the phonebook download function on the cellphone. With some cellphones, phonebooks cannot be downloaded.
For details, refer to the User's Manual for the cellphone.

MEMO:

- *After a phonebook is downloaded, the cellphone connection is sometimes disconnected. If this happens, select the cellphone you want to connect to again from the telephone selection screen.*

1 MENU ▶ Phone

2 ▶

3 Download Phonebook

MEMO:

- *If phonebook data has already been registered,* Download memory *is displayed.*

4 **Select the download method.**

Download Phonebook:
This downloads the phonebook data from a Bluetooth-compatible cellphone and overwrites and saves the phonebook data on the unit.
Note that the previous downloaded data is overwritten and can no longer be used.

Download 1 Entry:
This downloads the phonebook data from a Bluetooth-compatible cellphone and adds and saves this data to the phonebook data on the unit. Note that the previous downloaded data is not overwritten and can still be used.

Cancel:
This cancels the download and returns you to the previous screen.

5 **Download the phonebook from a cellphone.**

The phonebook of the currently selected cellphone is downloaded to the unit.

MEMO:

- *Up to 1,000 phonebook entries can be registered per cellphone.*
- *Up to five telephone numbers can be displayed for each name in the phonebook.*
- *When downloading from a cellphone, even the same telephone numbers are always added and registered, and are not overwritten. Delete telephone numbers, as required.*
- *The display order of the downloaded phonebook differs from the order displayed in the cellphone. Entries are sorted alphabetically by last name.*

Making calls from the phonebook

1 MENU ▶ Phone

2 ▶

3 **Select the name.**

4 **Select the telephone number.**

5 Call

The registered telephone number is dialed and the call is made.

MEMO:

- *For details on how to register phonebooks, see "Registering a phonebook."* → P.30

Deleting phonebook data

1 MENU ▶ Phone

2 ▶

3 Delete All

4 OK

All of the phonebook data is deleted.

Receiving telephone calls

When a cellphone connected to the unit receives an incoming call, the incoming call screen is displayed.

⚠ CAUTION

- **When you receive a call while you are driving, be sure to check the safety around you before taking the call.**

1 **When you have an incoming call**

The screen switches to the telephone call screen.

:

Touching this during an incoming call, rejects the call.

2 **To end a telephone call**

This disconnects the call and returns you to the previous screen.

The telephone number of the incoming call and name (when registered to the phonebook) are saved as the incoming calls log.

Setting the call volume

1 MENU ▶ Phone ▶

2 **Set the phone ringer volume, phone incoming volume and phone outgoing volume.**

The volume can be set to level 1 to 16. (Default: Level 4)

MEMO:

- *The volume can be adjusted by the rotary volume knob (NX504E) or VOL+, VOL- (FX504E) during a incoming call and a call.*
- *When the volume is adjusted while you are making a telephone call, calls can be made at the original volume when the next telephone call is received or made even though other audio sources are switched to and the volume is changed.*

Using Smart Access

Smart Access is a cloud information network service provided by Clarion so that all automobile users can enjoy comfortable, safe and convenient driving.

By "linking" vehicles to Smart Access by smartphone, etc., Smart Access provides customers in vehicles with various conveniences such as entertainment, driving related information and Internet information.

What is Smartphone linking?

You can connect the unit to your smartphone and operate the various applications that run on your smartphone from the unit.

For example, you can output audio that is played from the speakers connected to the unit or display images displayed in applications on the unit. This is called "Smartphone linking."

The following lists the smartphones that can be linked to the unit:

- Covered models: iPhone 4, iPhone 4s, Android smartphones

✻ For the device with Lightning connector, it can be linked to the unit using the Apple Lightning-Digital AV adaptor (sold separately) and the HDMI cable (sold separately).

(as of March 2014)

<Android devices only>

- Compatible Bluetooth profile:
  SPP (serial port profile)
  HID (human interface device profile)
- HDMI output resolution:
  480p (720X480/640X480)
  576p (720X576)

English

MEMO:

- *With some Android devices, the HDMI output setting on the smartphone must be enabled.*

Also, with this function, only applications compatible with Smartphone linking can be used. This User's Manual refers to these as "linking-compatible applications."

Attention

- *Use of Smartphone linking function is charged to smartphone communications fees. Charges are borne by the person contracted to the smartphone being used. Charges billed from the cellphone carrier may be expensive depending on the method of use. Before use, check the price plans and methods of use with the cellphone carrier you are contracted to. We recommend using the optimum price plan, such as a flat-rate data plan based on the frequency of use.*

Notice

- *While you are driving, some applications cannot be operated so as to prevent obstruction to driving.*
- *Information content that is distributed in real time belongs to third parties having the rights concerned. The content of services might be changed or suspended for reasons of third parties having the rights concerned.*

❑ *Linking-compatible applications*

To use Smartphone linking, linking-compatible applications and application management software "Smart Access" must be installed on the software.
First, search for "Smart Access" from the App Store℠ or Google Play™ and install this.
Next, install the linking-compatible applications. Start up Smart Access on the smartphone and install the linking-compatible applications from recommended lists.
Linking-compatible applications are scheduled to be added as they become available.
For details on how to use applications, refer to the Help for each application that is started up on the smartphone.

❑ *Procedure up to Smartphone linking*

The Smartphone linking procedure is as follows.

Notice

- *During Smartphone linking, operations on the iPhone are not possible.*

(For iPhone)

1. **Set "iPhone" for "Linked device" on the Settings menu. → P.41**
2. **Start Smart Access on the iPhone.**
3. **(Only for the device with Lightning connector)**
   Set "Usage Setting" in "BT Devices Connection" on the Settings menu, and then connect iPhone via Bluetooth. → P.28
4. **Connect the iPhone to the unit**
   For the device with 30-pin connector, connect iPhone with the CCA-750 video jack (sold separately) still connected to the VTR cable.
   For the device with Lightning connector, the Apple Lightning-Digital AV adaptor (sold separately) and the HDMI cable (sold separately) are necessary.

MEMO:

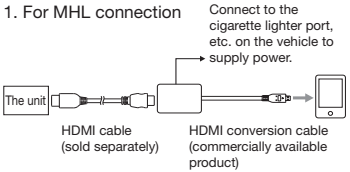
- *For the device with Lightning connector, the music and video in the iPhone cannot be played from* USB / iPod *on the main menu screen. Please use the Smart Access linking-compatible application "Media4car".*

5. **Start the application on the unit.**

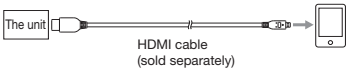
(For Android smartphones)

1. **Set "Android" for "Linked device" on the Settings menu. → P.41**
2. **Start Smart Access on the smartphone.**
3. **Set "Usage Setting" in "BT Devices Connection" on the Settings menu, and then connect your smartphone via Bluetooth. → P.28**
4. **Connect the unit to the smartphone.**
   The following two connection methods are also available for some smartphones.

1. For MHL connection


Connect to the cigarette lighter port, etc. on the vehicle to supply power.
The unit
HDMI cable (sold separately)
HDMI conversion cable (commercially available product)

2. For HDMI connection



Attention

- *Use only an HDMI conversion cable that supports EDID transfer.*

5. **Start the application on the unit.**

Starting up applications

Notice

- *The unit sometimes does not support smartphone multi-touch or flicking functions.*
- *Applications cannot be added or deleted from the unit. Execute addition or deletion of applications on the smartphone.*
- *During Smartphone linking, do not set the smartphone to a sleep state. Doing so might prevent the smartphone from functioning properly.*

MEMO:

- *When Smart Access is used for the first time, the Terms of Use confirmation screen is displayed. Check the terms of use, and touch* Check*.*
- *"!" will be displayed when there is a new version of Smart Access available. To update Smart Access, remove the smartphone from the unit, and execute the update by operating the application on the smartphone.*

1 MENU ▶ Smart Access

Start up Smart Access. The list of linking-related applications installed on the smartphone is displayed. When an application is started up on the smartphone, the screen is switched to the application screen.

2 Select the application you want to start up.

The application starts up. The application can be operated from screens on the unit as if you are operating the smartphone.

Touch MENU ▶ Smart Access to return to the application list screen.

Adjusting the screen size (Android smartphones only)

During Smartphone linking, the left and right, or top and bottom of the screen sometimes displays black because of different resolutions on the unit and the smartphone. The screen size can be corrected by the following procedure.

Notice

- *If you cannot touch , update Smart Access on the smartphone.*

1 During Smartphone linking Smart Access.

The side menu is displayed.

2

:
The screen returns to the application list screen.

:
The screen returns to the previous screen when the screen is not displayed the application list screen.

:
This hides the side menu.

3 Adjust the screen size.

:
This reduces the height of screen size.

:
This increases the height of screen size.

:
This reduces the width of screen size.

:
This increases the width of screen size.

Reset to Factory Setting:
This resets the screen size after correction to their factory settings.

Back:
This cancels the settings and displays the application list screen.

4 OK

5 Check

After adjusting the screen size, go on to correct the touch position on screen.

Correcting the touch position on screen (Android smartphones only)

During Smartphone linking, the positions of keys displayed on the unit is sometimes deviate from the actual touch position because of different resolutions on the unit and the smartphone. This deviation can be automatically corrected by the following procedure.

1 During Smartphone linking Smart Access.

The side menu is displayed.

2

3 Yes

No:
This cancels correction of the touch position.

Reset to Factory Setting:
This resets the touch positions after correction to their factory settings.

4 Touch the + mark at the top left of the screen.

5 Touch the + mark at the bottom right of the screen.

This completes correction of the touch position.

Ending Smartphone linking

1 MENU

2 Disconnect CCA-750 or HDMI cable.

English

Using Intelligent VOICE (NX504E only)

Intelligent VOICE is a voice recognition service that lets you search for destinations by just saying what's on your mind, based on Google™ Voice recognition technology and Google's vast local search information. You can verbally input a destination you want to search for by using Smartphone linking.
The application links to the Google server via the smartphone and searches for the destination.
For details refer to the following website:
http://www.clarion.com

⚠ WARNING

- **For your safety, the driver must not operate the smartphone while driving.**

Attention

- *Please note that the communication conditions may cause a delay in verbal input.*
- *There may be some delays when the service is used for the first time, regardless of the communication conditions when downloading the required data.*
- *Please update Smart Access to the latest version.*

Preparations

- Install and start up Smart Access on the smartphone.
- For iPhone, connect iPhone to the unit via Bluetooth or USB.
  For Android smartphones, connect the smartphone to the unit via Bluetooth.

1 Smart Access

2 **Talk to the interior microphone on the unit.**

Destination History:
This displays the search history.

Cancel:
This cancels the voice recognition.

Try again:
Select this to try to talk again.

MEMO:

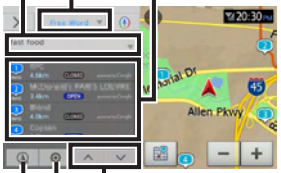
- *Examples of verbal input:*
  - *"Steak house"*
  - *"Japanese restaurant"*

The search results list screen is displayed.

The words you talked or the related items are displayed.

The search history is displayed.

This displays the details of the place, the expiration date of Intelligent VOICE etc. and sets as a destination or a waypoint.



This scrolls through the list.

This switches the units of mi/km and deletes the search history.

This switches the search area to the around of destination or current location.

3 **Select a destination you want.**

Using a remote control (sold separately)

Cautions during remote control operations

Pay attention to the following points when using the remote control.

- The remote control sometimes cannot be operated when direct sunlight is striking the remote control sensor on the unit. In instances like this, block off the direct sunlight to operate the remote control.
- Do not leave the remote control in places that get hot, such as the dashboard in direct sunlight. Doing so might result in the main unit becoming deformed, the batteries leaking or other malfunctions.
- When the emission distance of the remote control gets shorter or its operable range gets narrower, replace the batteries inside the remote control.
- When the remote control is not going to be used for at least a month, remove the batteries from inside the remote control to prevent battery leakage. If the battery has leaked, wipe off the liquid thoroughly and replace the battery.

Battery related precautions

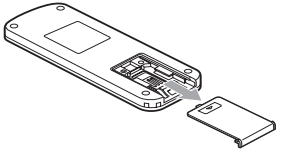
- Use only the specified battery. Do not use other batteries.
  Doing so might cause the battery to burst or leak, or cause fire or injury, and contaminate the surrounding area.
- When inserting the battery into the remote control, pay attention to polarity (⊕ and ⊖ pole) and insert it as instructed.
  Failure to follow instructions might cause the battery to burst or leak, or cause injury, and contaminate the surrounding area.
- Do not heat or disassemble the battery, or put it in fire or water.
  Doing so might cause the battery to burst or leak, or cause fire or injury.
- Do not carry the battery around or store it together with metal ballpoint pens, necklaces, coins, or other metal objects.
  Doing so might cause the battery to burst or leak, or cause fire or injury.
- Dispose of used batteries according to predetermined methods and at predetermined locations.
- Do not leave the battery provided with the remote control within the reach of small children or infants.
  They might swallow them by mistake. If you think that a small child or infant has swallowed a battery, immediately consult a physician.

Replacing the battery

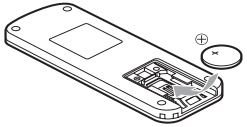
Notice

- *When using the remote control for the first time, insert the battery provided with the remote control.*

1 **Open the battery compartment cover and remove the battery.**



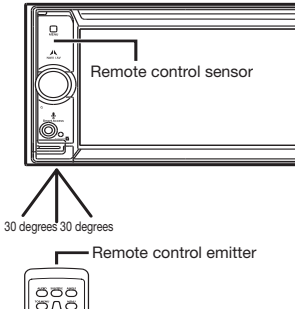
2 **Insert the new lithium cell (CR2032) with the ⊕ mark face up, and close the battery compartment cover.**



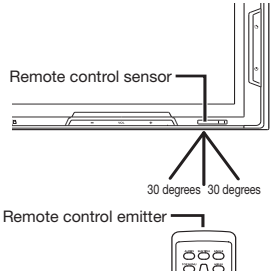
How to use the remote control

1 **Operate the remote control with it pointed at the remote control sensor on the unit.**

NX504E

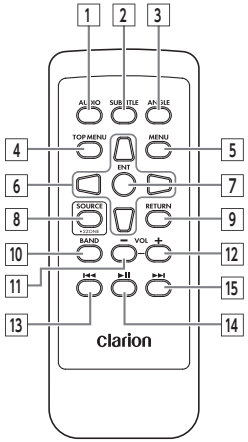


FX504E



Operate the remote control with its emitter pointed at the remote control sensor within a range 30 degrees above, below, left and right of the sensor.

Names and functions of remote control parts



Notice

- *On the FX504E, available buttons are as follows:* **SOURCE**, **BAND**, **VOL−**, **VOL+**, **I◀◀**, **▶▶I**
- *During telephone calls and when AUX is selected, these cannot be operated.*

1 **AUDIO button**
This switches the audio language of DVD video and DivX.

2 **SUB TITLE button**
This switches the subtitle language of DVD video and DivX.

3 **ANGLE button**
This switches the multi angle setting of DVD video.

4 **TOP MENU button**
This displays the top menu screen of DVD video.

5 **MENU button**
This displays the top menu screen of DVD video.

6 **direction button**
This selects items in the DVD video menu screen and top menu screen.

7 **ENTER button**
This determines items selected in the DVD video menu screen and top menu screen.

8 **SOURCE button**
This switches the source of the audio mode.
When the unit is turned off, this turns the power on.
Keeping this button hold down starts up the voice recognition application. (NX504E only)

9 **RETURN button**
This returns you to the immediately previous screen in the DVD video menu screen and top menu screen.
✻ The 2ZONE function cannot be used with the unit.

10 **BAND button**
This switches the tuner FM and AM bands.

11 **VOL− button**
This lowers the volume.

12 **VOL+ button**
This raises the volume.

13 **I◀◀ button**
When radio is playing:
Preset channel increment
Long press time:
Channel seek increment
When other audio sources are selected[*1]:
Track/chapter increment, track/chapter rewind

14 (►II) **button**
This pauses play depending on the source.
If this button is pressed during a pause, play is resumed from the place where it was stopped.
Long press time:
This resume stops DVD video and DivX. If this button is long pressed during a resume stop, play is completely stopped.

15 (►►I) **button**
When radio is playing:
Preset channel decrement
Long press time:
Channel seek decrement
When other audio sources are selected*1, *2:
Track/chapter decrement, track/chapter fast forward

* 1 With DVDs, keys other than on the disc menu cannot be operated on the remote control. Touch the unit to operate them.
* 2 With DVDs, slow play during a pause is possible by pressing (►►I).

Using the rear camera

When the rear color camera (sold separately) is connected to the unit, the rear of the vehicle can be viewed on the monitor. To connect it, you need the camera input cable (CCA-644).Consult your dealer before buying the rear color camera (sold separately).

⚠ WARNING

- **Never reverse the vehicle while viewing only the monitor screen. Be sure to check the safety of the area around the vehicle directly with your eyes and drive at a slow speed.**
- **Before adjusting the image quality and adjusting, for example, the guide display, be sure to stop the vehicle at a safe place and then proceed with these operations.**

Notice

- *The range projected by the rear camera is limited. Also, the guides displayed on the rear camera screen sometimes differ from the actual vehicle width and actual distance between cars. (Guides are straight lines.)*
- *Use the image in the rear camera as an aid for checking for obstructions, etc. The quality of the projected image might get worse when water droplets, etc. adhere to the camera.*
- *Be sure to adjust the guides to match the car you are driving when the guides are displayed.*

Image in the rear camera

- Actual distances and the impression from the image in the rear camera is different since it uses a wide-angle lens.
- The image in the rear camera is a mirror image. A “mirror image” is an image obtained by inverting the left and right of an image like in a rear mirror or side mirror on a vehicle.
- The image in the rear camera cannot be seen or is difficult to view at night or in dark locations.
- The camera is in a drip-proof sealed structure to prevent condensation on the lens.
- Never loosen the screws on the camera body or disassemble the camera. This will impair the drip-proof performance and cause malfunction, etc.
- Clear images cannot be obtained when the lens front cover is dirty. When water droplets, snow, mud, etc, is adhering to the cover, wipe the cover clean with a soft cloth, for example, moistened with water. Wiping the lens cover firmly with a dry cloth, for example, with dirt, etc. still on the cover will sometimes scratch it.

Displaying the image in the rear camera

Notice

- *The guides can be displayed and adjusted only when the gear lever is at R (reverse).*

1 Turn the engine key to the “ON” position.

2 Set the gear lever to R (reverse).
The display switches to the image in the rear camera.
Display priority is given to the image in the rear camera even when audio-related items are displayed.
Only volume adjustment by the rotary volume knob (NX504E) VOL+, VOL- (FX504E) can be operated during camera display.

Adjusting the image quality of the monitor (rear camera)

Preparations

- Before adjusting the display, select night or day with Day/Night Mode on the Settings menu. → P.41

1 Touch the screen while the rear camera image is displayed.

2 Display Adjustment
If five seconds elapses without you touching the screen, Display Adjustment will be hidden.

3 − **or** + **of item to adjust**
Adjust the image quality while viewing the video image on screen.

4 Back
This sets the newly adjusted image setting.
Image quality adjustments can be set for both the day and night screens.

Displaying guidelines

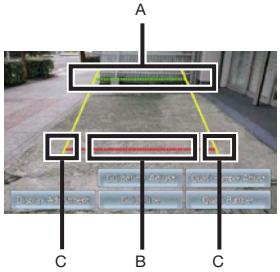
1 **Touch the screen while the rear camera image is displayed.**

2 Guideline

If five seconds elapses without you touching the screen, Guideline will be hidden.

3 Check

The guidelines are displayed.



A: Position about 2 m from the rear end of the vehicle
B: Position about 50 cm from the rear end of the vehicle
C: Approximately vehicle width + 20 cm

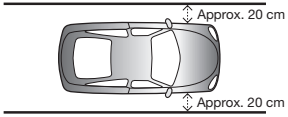
Adjusting the guidelines

When adjusting guidelines, marks must be drawn on the ground. Prepare tools for drawing lines on the ground, such as duct tape. Also, be sure to do the adjustments to match the car you drive.

⚠ WARNING

- **Before adjusting the guidelines, stop at a safe location.**
- **Before getting out of the vehicle and marking the ground, be sure to turn the engine key to the "OFF" position.**
- **Remember that guidelines are solely for reference. During actual driving, be sure to check the safety of the area around you yourself.**

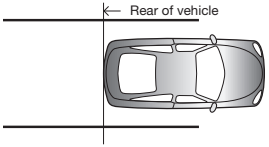
1 **Mark straight marks on the ground at vehicle width + about 20 cm positions.**



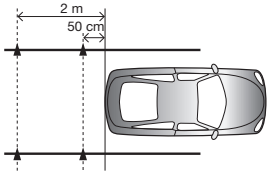
MEMO:

- *Mark on both sides of the vehicle using packaging or similar tape.*
- *Make the marks slightly longer than the length of the vehicle.*

2 **Drive the vehicle forward by about 2.5 meters, and mark straight lines at the rear of the vehicle.**



3 **Mark four locations on the left and right 50 cm and 2 m away from the marks you made in step 2.**



MEMO:

- *We recommend making an X mark using packaging or similar tape that is easily visible from the driver's seat.*

4 **Display the guidelines** → P.37

5 Guideline Adjust

6 **Select the four guideline points you want to adjust.**

7 ▼, ▲, ◀, ▶

Align the marks you made in step 3.

MEMO:

- *Continuously holding down ▼, ▲, ◀, ▶ allows you to move all the guide points together.*

8 **Repeat steps 6 and 7 to align all guide points with the marks you made in step 3.**

9 Back

This saves the settings and displays the regular image in the rear camera.

English

Displaying the quasi bumper line

The rear bumper is sometimes not displayed in the rear camera image depending on where the rear camera is installed. In cases like this, you can display a quasi bumper line so that you can park your vehicle while checking the position of the rear bumper in a quasi manner.

1 **Touch the screen while the rear camera image is displayed.**

2 Quasi Bumper
If five seconds elapses without you touching the screen, Quasi Bumper will be hidden.

3 Check
The quasi bumper line is displayed.

Adjusting the quasi bumper line

When adjusting the quasi bumper line, marks must be drawn on the ground. Prepare tools for drawing lines on the ground, such as duct tape.

⚠ WARNING

- **Before adjusting the quasi bumper line, first stop at a safe location.**
- **Before getting out of the vehicle and marking the ground, be sure to turn the engine key to the "OFF" position.**
- **Remember that the quasi bumper line is solely for reference. During actual driving, be sure to check the safety of the area around you yourself.**

1 **Mark straight marks on the ground at the vehicle rear + about 20 cm position.**

2 **Display the quasi bumper line.**

3 Quasi Bumper Adjust

4 ▲ **or** ▼
Adjust the upper and lower positions of the quasi bumper lines to match the mark made in step 1.

5 Back
This saves the settings and displays the regular image in the rear camera.

Using the rear seat monitor (NX504E only)

Passengers can also enjoy video in the rear seats if you install an additional rear seat monitor (sold separately).

Preparations

- To connect a rear seat monitor to the unit, the rear seat monitor and rear seat monitor installation attachment are required.

Attention

- *Install the rear seat monitor at a location where the driver cannot see video images while he or she is driving.*

Video images displayable on the rear seat monitor

The following video images can be displayed on the rear seat monitor. Note, however, that the control bar and other aids are not displayed on the rear seat monitor. Video images are displayed regardless of whether or not you are driving or the car has stopped.

- DVD/DivX
- AUX
- iPod video

Nothing will be displayed on the rear seat monitor if a source other than DVD, DivX, AUX, and iPod video is selected.
The image currently being played is displayed on the rear seat monitor even while the navigation screen is displayed on the unit's screen.

Various settings

You can set various operations, sound quality and video image quality relating to the unit.

Notice

- *While you are driving, selectable items are limited.*

Making general settings for the unit

1 MENU ▶ ⚙ ▶ ⚙

System Language:
This switches the language of text that is displayed in screens and messages. (Default: English)
When the language is switched, the unit is automatically restarted and the language is switched to the newly selected language. Navigation screens are dependent on the language setting of the navigation. (NX504E only) → "Owner's manual - Navigation"

Main Menu Icons:
This switches the icon display of the main menu screen. (Default: Simple)
When Active is selected, the icons in the main menu become animated. When Simple is selected, the icons become still images.

Shortcut Menu:
This assigns frequently used functions to shortcut keys. → P.39

Illumination Colour:
This sets the illumination color of the operation panel. (NX504E only) →P.39

Button Beeps:
This selects whether or not to sound a beep when a button or a touch key is operated. (Default: ON)

Time:
This manually adjusts the time in 1-minute units. (FX504E only)

Clock Format (24h):
This switches the clock display format between the 24-hour display and 12-hour display. (Default: OFF)

Antitheft Indicator:
When the engine key is turned off, the illumination on the unit blinks to indicate that the antitheft function is activated. (Default: OFF)

Antitheft Activation:
Security functions are activated if the main unit is stolen, once it is removed a password must be input to start it. (Default: OFF)

Antitheft PW.:
This is for changing the antitheft activation password. → P.39

System Software:
This is for displaying the software version and product information on the unit and for updating the program.

Check Connectivity:
Check the connectivity of various devices with the unit.
When the connectivity is confirmed, OK is displayed on the list screen.

Reset to Factory Setting:
This returns the data and settings on the unit to their factory defaults. →P.52

Setting the Shortcut Menu

1 MENU ▶ ⚙ ▶ ⚙

2 **Set at [Shortcut Menu]**

3 **Drag the icon you want to register to the shortcut keys to the shortcut key registration area.**
With your finger touching the icon, do not release your finger and slide the icon across the screen to where you want to register it and then take your finger away from the screen. This operation is called dragging.

Shortcut registration area

The icon you dragged is registered to the shortcut keys. (max.5 icons)

Setting the illumination display color on the control panel (NX504E only)

1 MENU ▶ ⚙ ▶ ⚙

2 **[Illumination Colour] settings key**

3 **Select the color.**

Color1 - Color9:
Select from the prepared colors.

Scan:
Switch the illumination display color on the operation panel in order Color1 to 9.

❑ *This sets the desired illumination color*

1 MENU ▶ ⚙ ▶ ⚙

2 **[Illumination Colour] settings key**

3 User 1 , User 2 , or User 3

4 Adjust

5 **Set the illumination display color.**
Set the color on the color palette or by adjusting the numerical values.
The colors you have set can be checked in the Sample area.

Reset to Factory Setting:
This resets the settings to their factory defaults.

From the next operation onwards, the same settings can be accessed at step 3.

Setting the password for antitheft activation

Attention

- *When the unit is transferred or resold, be sure to cancel the password.*
- *If you enter the wrong password three times, entry of the password is disabled for a fixed period of time. Make a note of the password and keep it in a safe place so you do not forget it.*

1 MENU ▶ ⚙ ▶ ⚙

2 ON **at [Antitheft Activation]**

3 **Read the precautions** ▶ Check

4 **Enter the 4-digit password** ▶ OK

5 **Enter the password again** ▶ OK
A message is displayed and the password is saved.

To change the password, touch Set at [Antitheft PW.] and enter the password, and then enter the new one.
To cancel the Antitheft Activation setting, touch OFF at [Antitheft Activation] and enter the password.

English

English

Adjusting Bluetooth settings

1 MENU ▶ ⚙ ▶ Bluetooth

2 **Set the Bluetooth connection using the keys.**

BT Devices Connection:
This toggles the Bluetooth function on/off, and registers, switches and deletes Bluetooth-compatible devices. → P.29

In-Car-Device setting:
Renames the device already set to the unit and changes the PIN. → P.40

❑ Renaming devices and changing the PIN

Notice

- *Device addresses cannot be changed.*

1 MENU ▶ ⚙ ▶ Bluetooth

2 Set **at [In-Car-Device setting]**

3 Name **or** PIN

4 **Enter the new name (default: CAR-BT) or PIN (default: 1234).**

5 Set

Setting sound quality

Make sound quality related settings.

1 MENU ▶ ⚙ ▶ Sound

2 **Set sound quality using the keys.**

Balance/Fader:
This adjusts the volume balance of the speakers at the front, back, left, and right. (Default: 0) → P.40

Loudness:
This enhances treble and bass to suit the volume. (Default: OFF)

Graphic Equalizer:
This is for selecting the desired sound quality from the preset sound quality effects memory. (Default: Flat) → P.40
Create and save a sound quality effects memory. → P.41

Sound Restorer:
Interpolating the treble region of compressed audio brings the sound quality closer to the original sound before it was compressed. (Default: OFF)

Volume Smoother:
This detects differences in volume level based on the source being played and differences in level in each scene in a film, and automatically adjusts the volume level. (Default: OFF) → P.41

Virtual Bass:
Adding a bass component in the bass region enhances bass to enable a richer bass sound. (Default: OFF)

Vocal Image Control:
Adjusting vocal volume balance moves the vocal image to the front, back, left, and right. (Default: 0) → P.40

Sub Woofer Control:
This adjusts the output level of a connected sub woofer speaker. (Default: 0)

High Pass Filter:
This sets the cutoff frequency of the high pass filter for the front and rear speakers. (Default: Through)

Low Pass Filter:
This sets the cutoff frequency of the low pass filter for the sub woofer. (Default: 120Hz)

❑ Adjusting speaker volume balance and vocal volume balance

Balance/Fader adjusts the overall volume balance. Vocal Image Control adjusts vocal which is oriented in the center of the stereo sound source and the volume balance of components such as main musical instruments. Use these settings to adjust the left/right balance and depth of vocals to suit the speaker configuration and number of passengers.

1 MENU ▶ ⚙ ▶ Sound

2 Set **at [Balance/Fader] or [Vocal Image Control]**

3 **Touch and set ▲, ▼, ◀, and ▶**

Reset to Factory Setting:
This returns the currently set adjustment settings (volume balance or Vocal Image Control) to their factory settings.

❑ Selecting and setting sound quality effects memory

You can select and set your preferred sound quality.

1 MENU ▶ ⚙ ▶ Sound

2 Set **at [Graphic Equalizer]**

3 **Select the sound quality.**

Bass.B:
Enhances bass.

High.B:
Enhances treble.

Acoustic:
Enhances the mid level (human voice).

Impact:
Enhances the low and high regions.

Smooth:
Creates a soft, gentle feel.

Flat:
Turns the sound source and equalizer off.

❑ *Setting preferred sound quality effects*

1 MENU ▶ ⚙ ▶ 🔊

2 Set at [Graphic Equalizer]

3 User 1 , User 2 , or User 3

4 Adjust

5 **Set the sound quality effect.**

▲ , ▼ :
This adjusts the band setting for each of the base, mid and treble regions.

Reset to Factory Setting:
This resets the settings of each band to “0”.
From the next operation onwards, the same settings can be accessed at step 3.

❑ *Adjusting the Volume Smoother*

Volume Smoother functions to automatically adjust differences in volume level of all kinds of music sources and scenes and compensate volume. When Volume Smoother is on, the volume level in audibility of audio signals is monitored and adjusted at all times, and differences in volume level are suppressed to a fixed range to enhance listening pleasure. Differences in audio level occur in the following kinds of instances:

- Difference in audio level between listening to CDs and the radio
- Difference in audio level between quiet scenes and scenes with loud noises such as explosion scenes when watching films on DVD, etc.

When Volume Smoother is on, each source can be listened to even in the above cases at an easy-to-listen volume level without having to operate the volume level.
The “volume compensation” effect can be altered by adjusting the Volume Smoother level. The volume compensation effect is increased in the order “Low” → “Mid” → “High”.

1 MENU ▶ ⚙ ▶ 🔊

2 **[Volume Smoother] settings key**

3 OFF , Low , Mid , or High

4 Close
The Volume Smoother level is adjusted.

MEMO:

- *When listening to sources such as DVDs having a large difference in volume level, we recommend setting the Volume Smoother level to “Mid” or “High”.*
- *The Volume Smoother can be set to each of video sources and other sources. When a source is switched, the Volume Smoother is switched to the value set for the new source.*

Setting screens

1 MENU ▶ ⚙ ▶ ▭

2 **Set image quality using respective keys.**

Day/Night Mode:
Switch to the day screen or night screen.
The screen can be made easier to view by manually switching to the day screen, for example, when the headlights are lit during the day and the screen is difficult to view.
When Auto is selected, the screen automatically switches to the night screen when the parking light is lit.

MEMO:

- *When the engine key is turned to the “OFF” position then back to the “ON” position, Auto is set.*

Brightness:
Adjust the image quality by + or − .
Image quality adjustments can be set for both the day and night screens.
During Smartphone linking, the image quality of the smartphone application screen can be adjusted.

Other settings

1 MENU ▶ ⚙ ▶ 🔧

2 **Set the functions using respective keys.**

DivX® VOD:
Displays the code required for setting DivX VOD content to a playable state (Register state) or unplayable state (Deregister state). (NX504E only)
This also changes the state (Register state/Deregister state) of the device being played.

Linked device:
Sets the smartphone to be connected when Smartphone linking is performed. (Default: iPhone)

Browser cache:
Deletes the Browser cache. (NX504E only)
Use this function when errors occur on Intelligent VOICE or Intelligent VOICE does not work correctly even though the smartphone is connected to the unit correctly.

Antena Power:
Switches power ON/OFF of the DAB antenna. (Default: ON) (NX504E only)

English

Troubleshooting

The following kinds of symptoms sometimes are not malfunctions. First check the following points before you ask for repair of the unit.

Navigation related (NX504E only)

Symptom	Remedy
GPS reception is not displayed.	Connect the antenna cable if it is not connected.
	Reception can be enabled by removing obstructions, etc.
	Positioning is sometimes not possible when the placement of the satellite is poor.
	Display appears by driving the vehicle.
Own vehicle is out of position. (Other electrical components are attached)	Move attached electrical components sufficiently away from the unit and the GPS antenna wire.

Audio related

	Symptom	Remedy
Radio	There is lots of noise.	Tune to the correct frequency. → **P.12**
	Stations cannot be tuned to automatically.	Manually select the station. → **P.12**
DAB	DAB is not received.	Check that “Antena Power” is set to ON. → **P.41** Or move to a place with good reception.
	The selected service is not played while DAB is being received.	The selected service might not be broadcasting. Select a service currently broadcasting.
CD/DVD/MP3/WMA (NX504E only)	No sound is output after a disc is inserted or the disc is immediately ejected.	Load the disc with its label surface face up.
		CDs recorded as CD-R/RW or copy-protected CDs sometimes cannot be used. Check the CD in use again.
		Finalize the disc so that it can be used.
		MIX MODE CDs cannot be played, eject them.
		8 cm discs cannot be played, eject them.
	Cannot remove the disc even by pressing the eject button.	Consult your retailer.
	Skipping Sound contains noise.	The disc might be dirty. Wipe the disc with a dry cloth.
		Replace with an unscratched disc.
	No sound is output after the power is turned on.	There might be water drops on the lens inside. Leave with the power on for about one hour to let it dry.
	Cannot insert the disc.	Check to see if other discs are not loaded. → **P.10**
	Jumping/skipping of MP3/WMA.	Change the encoder software and try recording again.
	MP3/WMA sound is poor.	Try recording at a higher sampling frequency or bitrate. → **P.47**
	MP3/WMA skipping.	Play on a personal computer to see if skipping occurs.

CD/DVD/MP3/WMA (NX504E only)	Some files or folders cannot be played.	When making files, delete data sections other than music data. Playing is not possible when tunes are recorded to a folder having eight or more layers, or the number of folders exceeds the maximum of 255 (including roots) and the number of files exceeds 512 (maximum of 255 files in one folder). Also, files cannot be played if the first character in the folder name or file name is a dot (.).
	Incorrect display.	Change the write setting to ISO9660-LV1 or LV2 and try writing again.
	MP3/WMA recorded to CD Extra cannot be played.	Play a CD to which an MP3/WMA file is written to the 1st session of the CD Extra.
	The “Disc read error.” screen is displayed.	Load the disc with its label surface face up.
iPod	List is not displayed.	The list sometimes is not displayed since the number of items displayed in the list is limited. This is not a malfunction.
	iPod operations are not possible.	Cancel the USB connection, set the iPod to play, and reconnect it.
		Cancel the USB connection, reset the iPod, and reconnect it.
	iPod audio is not output.	Perform operations from the iPod, and switch the settings (audio output) from Bluetooth (CAR-BT) to the Dock connector. Also, remove the iPod from the unit and reconnect it.

microSD card/USB memory	Cannot play from microSD card.	Check to see if the microSD card can be used on the unit. → **P.47**
	Cannot insert the microSD card.	Insert the microSD card into the loading slot with its label surface face up (NX504E). Insert the microSD card into the loading slot with its label surface face down (FX504E).
	Cannot play from USB memory.	Remove the USB memory and insert it again. Check to see if the USB memory can be used on the unit. → **P.47**
	Skipping.	Play on a personal computer to see if skipping occurs.
	Poor sound.	Try recording at a higher sampling frequency or bitrate. Check audio files that can be played on the unit. → **P.47**
	Some files or folders cannot be played.	Playing is not possible when tunes are recorded to a folder having eight or more layers, or the number of folders exceeds the maximum of 512 (including roots) and the number of files exceeds 8000 (maximum of 255 files in one folder). Use the personal computer to reconfigure so that the number of folders and files are within their respective limits. Also, files cannot be played if the first character in the folder name or file name is a dot (.).
	Wrong number of MP3/WMA files.	Delete files other than MP3/WMA.
	Audio play continues but the play time stops.	When a file exceeding 1 GB is played, the display of the play time sometimes stops. This is not a malfunction.

● Audio related		
Bluetooth audio	Cannot connect.	Correctly connect the Bluetooth-compatible device. → **P.28**
		Turn the audio device on.
		The unit sometimes cannot be connected or skipping sometimes happens depending on distance and where the Bluetooth Audio is installed. Situate the audio device so the reception is as good as possible.
	Audio is not played.	Use audio devices that are compatible with AVRCP.
		Cancel the connection and reconnect.
		Start up the player for the connected audio device.
	The track name, artist name and album name are not displayed.	Use audio devices that are compatible with AVRCP Ver.1.3. Restart the player on the Bluetooth Audio device side.
	Sound is no longer output from the connected audio device.	Specify the Bluetooth audio device again from the portable device's setting screen.

Smartphone linking

Symptom	Remedy
An error message is displayed and Smartphone linking is not possible.	Cancel the sleep state on the smartphone.
	Install the linking-compatible application and application management software "Smart Access" on the smartphone beforehand.
	Start up the linking-compatible application on the smartphone beforehand.
	Reconnect the smartphone in a place with good reception.
	Disconnect the connector cable and reconnect it.
	Check the OS setting on the unit.
	In the case of Android smartphones, enable the HDMI output setting on the smartphone. Next, check what resolutions of HDMI output are possible on the unit. Also, check to see if the smartphone supports Bluetooth SPP and HID profiles.
Applications cannot be updated even by touching "!" on the Smartphone linking screen on the unit.	For reasons of safety, the application cannot be updated during Smartphone linking. Disconnect the connector cable and update the application on the smartphone.
The Smartphone linking screen is not displayed, the screen is black, or an error message appears.	Check to see if the connector cable is connected properly. In the case of Android smartphones, check to see if the HDMI output resolution of your smartphone can be displayed on the unit.

The error screen is displayed in the Smartphone linking screen after an outgoing call is made.	In some versions of the smartphone OS, Smartphone linking is sometimes canceled after an outgoing call is made. Start up Smart Access from the Home screen by operating on the smartphone.
The error screen is displayed while the application is in use.	Use the smartphone in a place with good reception.
The Smartphone linking that could previously be used can no longer be used.	Check to see if the smartphone is turned on. Also, cancel the sleep state on the smartphone.
The smartphone appears not to be operating.	Disconnect the connector cable and reconnect it. Or, turn the smartphone off then back on again.
Audio cannot be heard even if the unit's volume is increased.	The volume may be set to zero on the smartphone. Increase the volume on the smartphone.

Rear camera

Symptom	Remedy
Camera image is not displayed.	Check to see if the gear select lever is in the R position.
	The screen may be difficult to view in bright or dark locations, however this is not a malfunction.
Camera image is poor.	Lightly wipe the front lens cover, for example, with a soft cloth moistened with water.
The guidelines of the rear camera are not displayed.	Touch the screen with the vehicle in a stopped state, and touch Guideline.

Others

Symptom	Remedy
The screen is difficult to view just after the power is turned on.	This is due to the properties of the LCD panel, and is not a malfunction. Please wait.
The screen is not displayed.	When the screen is hidden, it can be redisplayed by pressing the rotary volume knob (NX504E) or the POWER (FX504E). → **P.11**
	The fuse might be blown. Consult with your dealer.
The screen flickers.	Use electrical components (cellphones, wireless radios, minus ion generators, etc.) that generate electrical noise as far away from the unit as possible. Refrain from using these components when the unit might be adversely influenced even when they are used far away.
The screen becomes dark (or is partially dark) or disappears while the unit is in use.	Stop the vehicle at a safe location, turn the engine key to the "OFF" position and then to the "ACC" or "ON" position. If this does not rectify the problem, a probable cause might be an LCD backlight malfunction or erroneous operation of the unit. Consult with your dealer.
Buttons sometimes do not react immediately after the unit is started up.	Wait a while before retrying the operation.
Some menus cannot be operated while driving.	Stop the vehicle in a safe place and apply the side brake before doing any operations.

Discs that can be used on the unit (NX504E only)

Attention

- *Do not use the following discs since there is the possibility that they might get scratched or can no longer be removed.*
  - *8 cm CD*
  - *Non-standard shaped discs*
  - *Dual discs*
  - *Discs with labels on them*
- *Do not stick labels on disc surfaces or write on them with a pencil or pen, for example.*
- *When handling discs, take care not to leave fingerprints or scratches on the surfaces.*
- *Do not use discs if there is any glue or paper left on them from adhesive labels. If discs like these are inserted into the unit in this state, they may jam or cause a malfunction.*
- *Do not store discs in the following places:*
  - *Places subject to the direct sunlight*
  - *Humid or dusty places*
  - *Places subject to direct heat from heating apparatus*

CDs that can be played

- Music CDs
- CD-TEXT discs
- CD-Extra discs
  - ✻ Excluding music CDs
- Super Audio CD
  - ✻ Only the CD layer of hybrid discs
- Discs recorded in the correct format on a personal computer*1
- CD-R and CD-RW discs for music recorded on an music CD recorder*2
- Copy-protected CDs*3
- DivX discs

✻ 1 These sometimes cannot be played depending on the application software settings or environment. For details, contact your dealer of the application software.

✻ 2 These sometimes cannot be played normally. Or, CD-RW discs may take longer than regular CDs or CD-Rs to start playing after the disc has been inserted.

✻ 3 These sometimes cannot be played.

CDs that cannot be played

- MIX MODE CD
- Discs other than CD-DA (e.g. over burned CDs)
- DTS CD
- Video CD
- CD-R and CD-RW discs that have not been finalized

DVDs that can be played

- Discs with DVD VIDEO mark
- Discs whose region number is “2” or “ALL”
- DivX discs

Commercially available DVD videos can be played on the unit.

❑ *Note on region numbers of DVD video discs*

The DVD video system assigns a region number to DVD players and DVD discs by sales area.
The DVD video region number playable in this system is marked on the disc jacket as shown below.

❑ *DVD Video Features*

This unit provides the following functions in addition to the high image quality and sound quality of DVD video.

MEMO:

- *The functions described in this section differ depending on the DVD video disc. Refer to the instructions provided with the DVD video.*
- *Some disc functions may operate differently from described in this manual.*

Multi-sound function

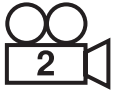
DVD video can store up to 8 languages for one film; select the language of your preference.

- The languages stored on the disc are indicated by the icon shown below.

Multi-angle function

A DVD video that is filmed from multiple angles allows you to select the angle of choice.

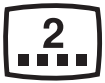
- The number of recorded angles is indicated by the icon shown below.



Subpicture (subtitles) function

A DVD video can record subtitles for up to 32 languages and you can select the language of the subtitles you wish to see.

- The number of recorded subtitle languages is indicated by the icon shown below.



Multi-story function

When a DVD video contains more than one story for a film, you can select the story you wish to enjoy. The operation procedures vary with the disc; observe the instructions for selecting a story provided during playback.

DVD menu

DVD Menus can be called up during DVD video playback to perform menu setting.

DVDs that cannot be played

- Discs whose region number is other than “2” or “ALL”
- Discs recorded in packet write mode
- Discs recorded in hi-vision at home
- DVD-RAM

✻ DVD-R, DVD-RW, DVD+R or DVD+RW recorded and finalized in the video mode sometimes cannot be played due to device specifications or environment settings, disc characteristics, or scratches and dirt on the disc.

microSD cards/USB memory that can be used on the unit

Use the commercially available microSD cards/USB memory listed below on the unit.

- Recording media
  microSD card*/USB memory
  ✻ High Capacity is supported up to Class10, and eXtended Capacity is not supported.
- Recording format
  FAT16, FAT32 compatibility
- Files with the .MP3 or .WMA extension (Do not append files other than MP3 or WMA with the “.MP3” or “.WMA” extension since this may cause noise or malfunction.)
- Files with of 2 GB or less
  Note, however, that when a file exceeding 1 GB is played, the display of the play time sometimes stops.
- When purchasing microSD cards, select a commercially available product that is compliant with standards.
- Recording media incompatible with microSD cards are not supported.

microSD card handling precautions

- Insert and remove the microSD card after turning off the unit, because the microSD card might get damage.
- Do not fold or bend or drop microSD cards.
- Do not wipe microSD cards with paint thinner, benzene or other organic solvents.
- During reading or writing, do not remove microSD cards from the unit or turn the engine key to the "OFF" position. Doing so might result in damage or loss of recorded data.
- When using microSD cards on the unit, also read the warning and cautionary instructions provided by the manufacturer of the personal computer and peripheral devices.
- Do not leave microSD cards at places where they are likely to get hot, such as on the dashboard or at places subject to direct sunlight. Doing so might cause them to become deformed or malfunction.
- Do not touch the terminal surface of microSD cards with your hands or metal objects.
- Do not optimize microSD cards.
- We recommend backing up important data stored on microSD cards.

Audio files that can be played on the unit

CD-ROM, CD-R, CD-RW, DVD-R, DVD-RW, DVD+R, DVD+RW (from here on, NX504E only), microSD cards, and USB memory recorded with MP3 or WMA files can be played on the unit.
MP3 stands for MPEG Audio Layer 3, and is a standard format relating to audio compression technology.
MP3 files hold music data compressed to about 1/10 of its original size.
WMA stands for Windows Media Audio, and is an audio compression format original to Microsoft Corporation.
MP3 and WMA discs (NX504E only) and files that can be played are as follows:

- Recording media*1:
  CD-ROM, CD-R, CD-RW, DVD-R, DVD-RW, DVD+R, DVD+RW
- Recording format:
  CD: ISO9660 level 1/level 2, Joliet, Romeo
  DVD: UDF (Ver1.02/1.5/2.0), UDF-bridge
- Packet writing is not supported.
- Files with the .MP3 or .WMA extension (Do not append files other than MP3 or WMA with the “.MP3” or “.WMA” extension since this may cause noise or malfunction.)

✻ 1 Up to 40 sessions on discs recorded with multi-session support can be played. (Multi-session is not supported on DVD-R/RW and DVD+R/RW.)

MEMO:

- *Display of the play time sometimes deviates when MP3 and WMA VBR files are played, or fast-forwarded or rewound.*

English

MP3 files

- ID3-Tag: Display of Ver1.x, 2.x album (displayed as Disc Title), track (displayed as Track Title) and artist (displayed as Track Artist) are supported.
- Emphasis: Supported only when playing 44.1 kHz files
- Playable sampling frequencies
  MPEG1: 44.1 kHz/48 kHz/32 kHz
  MPEG2: 22.05 kHz/24 kHz/16 kHz
  MPEG2.5: 11.025 kHz/12 kHz/8 kHz
  ✻ In terms of audio quality, 44.1 kHz or higher is recommended.
- Playable bitrates
  MPEG1: 32 kbps to 320 kbps/VBR
  MPEG2: 8 kbps to 160 kbps/VBR
  MPEG2.5: 8 kbps to 160 kbps/VBR
  ✻ In terms of audio quality, 128 kbps or higher is recommended.
- Jumping sometimes occurs with files recorded at the following sampling frequencies and bitrates:
  Sampling frequency: 16 kHz or less
  Bitrate: 8 kbps or less
- MP3i (MP3 interactive) and mp3 PRO format are not supported.
- Skipping sometimes occurs depending the data content of the MP3 file.
- Files with a short recording time sometimes cannot be played.
- When discs (NX504E only)/microSD cards/USB memory contain large data other than music data, tunes sometimes cannot be played.
- Display of the play time sometimes deviates when low bitrate files are played, or fast-forwarded or rewound.
- When TAG information is changed in TAG editing software other than Windows Media Player or iTunes®, TAGs are sometimes not displayed properly.

WMA files

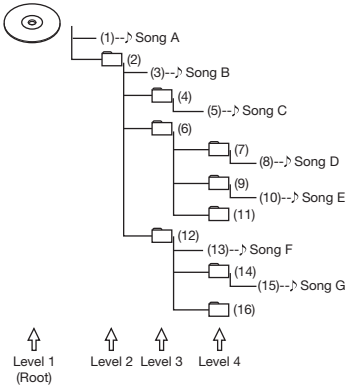
- Characters in album names sometimes are corrupted depending on the software on the PC where the names were made.
- WMA9 Professional, WMA9 Voice and WMA9 lossless format are not supported.
- When discs (NX504E only)/microSD cards/USB memory contain large data other than music data, tunes sometimes cannot be played.
- Display of the play time sometimes deviates depending on the data content of the WMA file. Also, skipping or jumping sometimes occurs partially or noise sometimes occurs depending on the bitrate.
- The sampling frequency and bitrates that can be played differ according to the recording version. Refer to the table below.

Bitrate (kbps)	Discs	microSD cards/ USB memory
	Sampling frequency (kHz)	
320	44.1	-
256	44.1	-
192	48/44.1	44.1
160	48/44.1	44.1
128	48/44.1	44.1
96	48/44.1	44.1
80	44.1	44.1
64	48/44.1	44.1/32
48	44.1/32	44.1/32
44	-	32
40	32	32
36	-	32
32	44.1/ 32/22.05	48/44.1/ 32/22.05
22	22.05	32/22.05
20	44.1/32/ 22.05/16	44.1/32/ 22.05/16
16	22.05/16	22.05/16
12	16/8	16/8
10	16/11.025	16/11.025
8	11.025/8	11.025* /8*
6	8	8*
5	8	8*
VBR	44.1	48/44.1

✻ Jumping sometimes occurs.

Folder structure of discs

The maximum number of folders, files and tracks on discs are as follows:
Folders: 255 (including root)
Files: 512
Tracks: 255 per folder
The following is an illustration of a disc recorded with MP3 and WMA files (example, layers 1 to 4 of the folder hierarchy).



Folders without tunes are skipped to determine the play order.
The play order in the case of the above figure becomes (1) → (3) → (5) → (8) → (10) → (13) → (15).

Notice

- *In the case of discs, playing files down to eight layers (including the root directory) is supported, though it may take time until play starts when the disc has lots of folders.*

Folder structure of microSD card/USB memory

Music data can be recognized in eight layers of the folder hierarchy (excluding the root) on both microSD cards and USB memory. Only MP3 and WMA music data in these layers is recognized. There is no designation as to which layer data must be placed.
Limit the total number of characters in folder names and file names to 250 characters for both 2-byte and 1-byte characters.

MEMO:

- *Folders not containing MP3 and WMA files are not recognized.*
- *In the case of microSD cards and USB memory, play of files down to eight layers (including the root directory) is supported, though it may take time until play starts when the card or memory has lots of folders.*
- *When a folder contains 255 or more tracks, the tracks that are recognized change according to the order in which data is written to the personal computer.*
- *When a folder contains files other than MP3 and WMA, the number of tracks that are recognized may be reduced.*
- *The maximum number of folders, files and tracks that can be recognized are as follows:*

  Folders: 512

  Files: 8,000

  Tracks: 255 per folder
- *When there are files on the 1st layer, they are placed in the "MASTER FOLDER" in the folder list screen.*

Notes for playing back MP3 and WMA on the unit

- When folders, files and tracks are recorded beyond their maximum numbers, folders, files and tracks over the respective maximum number are not recognized. Also, the display order of folders and files on the unit differs from the display on a personal computer.
- Files cannot be played if the first character in the folder name or file name is a dot (.) or if the folder or file name is too long.
- When displaying MP3 or WMA file names, part of the extension (./.m/.mp/.W/.WM) may be left behind following the file name depending on the length of the file name. If this happens, adjust the length of file names you create. (The length of file names on which part of the extension is left behind depends on the file system you are using.)
- Music files protected by copyright on both microSD cards and USB memory cannot be played on the unit.

Video files that can be played on the unit (NX504E only)

CD-ROM, CD-R, CD-RW, DVD-R, DVD-RW, DVD+R, and DVD+RW recorded with DivX content can be played on the unit. DivX discs and files that can be played are as follows:

- Recording media:
  CD-ROM, CD-R, CD-RW, DVD-R, DVD-RW, DVD+R, DVD+RW
- Recording format:
  UDF (Ver1.02/1.5/2.0), UDF-Bridge, ISO9660 Level1, ISO9660 Level2, Joliet, Romeo
- Packet writing is not supported.
- Files with the .DivX or .AVI extension (Do not append files other than DivX with the ".DivX" or ".AVI" extension since this may cause noise or malfunction.)
- Profile: DivX Home Theater Profile
- Container format: AVI
- Version: Ver.1.0 supported (Ver.2.0 or later not supported)

Video codec	DivX Ver.3, Ver.4, Ver.5, Ver.6
Bit rate (kbps)	4854 or less
Resolution	Play at 30 fps: 32 x 32 to 720 x 480 Play at 25 fps: 32 x 32 to 720 x 576

Audio codec	MP3 (MPEG1/2 AudioLayer-3)	MPEG-BC (MPEG1/2 AudioLayer-2)
Bit rate (kbps)	16 to 320	32 to 384*
Sampling rate (kHz)	16, 22.05, 24, 32, 44.1, 48	16, 22.05, 24, 32, 44.1, 48
Audio Coding mode	1/0, 2/0, Dual Mono, MP3 Surround	1/0, 2/0, Dual Mono

Audio codec	MPEG 2.5	AC3
Bit rate (kbps)	6 to 160	32 to 640
Sampling rate (kHz)	8, 11.025, 12	32, 44.1, 48
Audio Coding mode	1/0, 2/0, Dual Mono	1/0, 2/0, 3/0, 2/1, 3/1, 2/2, 3/2, Dual Mono

Audio codec	LPCM
Bit rate (kbps)	8, 11.025, 12, 16, 22.05, 24, 32, 44.1, 48
Quantization bit rate	8, 16
Audio Coding mode	1/0, 2/0

✻ Playback may not work together with some audio coding modes.

Country code

Name of country	Country code	Entry number
ALBANIA	AL	6576
ANDORRA	AD	6568
AUSTRIA	AT	6584
BAHRAIN	BH	6672
BELGIUM	BE	6669
BOSNIA AND HERZEGOWINA	BA	6665
BULGARIA	BG	6671
CROATIA (local name: Hrvatska)	HR	7282
CYPRUS	CY	6789
CZECH REPUBLIC	CZ	6790
DENMARK	DK	6875
EGYPT	EG	6971
FINLAND	FI	7073
FRANCE	FR	7082
FRANCE, METROPOLITAN	FX	7088
GERMANY	DE	6869
GREECE	GR	7182
HUNGARY	HU	7285
ICELAND	IS	7383
IRAN (ISLAMIC REPUBLIC)	IR	7382
IRAQ	IQ	7381
IRELAND	IE	7369
ISRAEL	IL	7376
ITALY	IT	7384
JAPAN	JP	7480
JORDAN	JO	7479
KUWAIT	KW	7587
LEBANON	LB	7666
LESOTHO	LS	7683
LIECHTENSTEIN	LI	7673
LUXEMBURG	LU	7685
MACEDONIA, THE FORMER YUGOSLAVIA REPUBLIC OF	MK	7775
MALTA	MT	7784
MONACO	MC	7767
NETHERLANDS	NL	7876
(NETHERLANDS ANTILLES)	AN	6578
NORWAY	NO	7879
OMAN	OM	7977
POLAND	PL	8076
PORTUGAL	PT	8084
QATAR	QA	8165
ROMANIA	RO	8279
SAN MARINO	SM	8377
SAUDI ARABIA	SA	8365
SLOVAKIA (Slovak Republic)	SK	8375
SLOVENIA	SI	8373
SOUTH AFRICA	ZA	9065
SPAIN	ES	6983
SWAZILAND	SZ	8390
SWEDEN	SE	8369
SWITZERLAND	CH	6772
SYRIAN ARAB REPUBLIC	SY	8389
TURKEY	TR	8482
UNITED ARAB EMIRATES	AE	6569
UNITED KINGDOM	GB	7166
Vatican City State	VA	8665
YEMEN	YE	8969
YUGOSLAVIA	YU	8985
FAROE ISLANDS	FO	7079
GIBRALTAR	GI	7173
GREENLAND	GL	7176
SVALBARD AND JAN MAYEN ISLANDS	SJ	8374

Daily care and handling

Daily care and handling of main unit

Pay attention to the following points when performing daily care on the main unit.

- When performing daily care on the main unit, wipe lightly with a soft, dry cloth. If dirt is stubborn, wipe lightly with a soft cloth moistened with a small amount of neutral detergent diluted with water, and then finish by wiping with a dry cloth. If liquid gets into the cracks of the device, this may cause a malfunction.
  - ✻ When performing daily care on the main unit, never use benzene or paint thinner, car cleaner, polish spray, or similar fluids. Doing so might cause fire. Also, leaving rubber or plastic products in contact with the cabinet for long periods of time may cause stains.
- Occasionally wipe off any dust that adheres to the LCD display with a soft, dry cloth.

Warranty and customer support

Warranty

This product is provided with a Warranty. Be sure to check the information and keep the form in a safe place.

Warranty period

Check the warranty period written on the Warranty.

Repair after end of warranty period

If performance can be maintained by repairing this product, we shall repair it for a charge in accordance with the customer's wishes.

Specifications

Navigation (GPS) unit (NX504E only)

Reception frequency :	1575.42 MHz C/A code
Sensitivity:	-130 dBm or less
Number of channels:	Parallel 13

LCD monitor

Screen size:	6.2"
Display method:	Transmission type TN liquid crystal panel
Drive method:	TFT (thin-film transistor) Active matrix Drive method
Number of pixels:	1,152,000 [800 (H) x 480 (V) x 3 (RGB)]

CD player (NX504E only)

Frequency characteristics:	20 Hz to 20 kHz
Signal-to-noise ratio:	80 dB
Total distortion factor:	0.05% (1 kHz)

DVD player (NX504E only)

Frequency characteristics:	20 Hz to 20 kHz
Signal-to-noise ratio:	80 dB
Total distortion factor:	0.05% (1 kHz)

FM tuner

Reception frequency:	87.5 MHz to 108.0 MHz
Practical sensitivity:	20 dBµV

AM tuner

Reception frequency:	531 kHz to 1,602 kHz
Practical sensitivity:	40 dBµV

Digital radio section (DAB) (NX504E only)

Receiving frequencies:	
Band III:	174.928 to 239.200 MHz
L-Band:	1452.960 to 1490.624 MHz

Audio unit

Rated output:	18 W x 4 (10%, 4 Ω)
Max. momentary output:	47 W x 4
Compatible impedance:	4 Ω

Bluetooth unit

Reception frequency:	2402 MHz to 2480 MHz (1 MHz increments)
Reception sensitivity:	-70 dBm or less
Standard:	Version 2.1+EDR

Common sections

Rated voltage:	14.4 V (permissible voltage range 10.8 to 15.6 V)
Grounding method:	Minus ground
Current consumption:	Approx. 4 A (at 1 W)

Trademarks

- This product incorporates copyright protection technology that is protected by U.S. patents and other intellectual property rights. Use of this copyright protection technology must be authorized by Rovi Corporation, and is intended for home and other limited viewing uses only unless otherwise authorized by Rovi Corporation. Reverse engineering or disassembly is prohibited.
  Use of this product by the customer is restricted to play program materials to which the Rovi copyright protection process has been applied. (NX504E only)
- Manufactured under license from Dolby Laboratories. "Dolby" and the double-D symbol are trademarks of Dolby Laboratories. (NX504E only)

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- DVD VIDEO is the trademark of DVD Format/ Logo Licensing Corporation. (NX504E only)
- microSDHC Logo is a trademark of SD-3C, LLC.

microSDHC

- "Made for iPod" and "Made for iPhone"mean that an electronic accessory has been designed to connect specifically to iPod or iPhone, respectively, and has been certified by the developer to meet Apple performance standards. Apple is not responsible for the operation of this device or its compliance with safety and regulatory standards. Please note that the use of this accessory with iPod or iPhone may affect wireless performance.

English

iPhone, iPod, iPod classic, iPod nano, iPod touch, and iTunes are trademarks of Apple Inc., registered in the U.S. and other countries.
Lightning is a trademark of Apple Inc.

Made for iPod iPhone

- DivX®, DivX Certified® and associated logos are trademarks of Rovi Corporation or its subsidiaries and are used under license.
  DivX Certified® to play DivX® video, including premium content.
  Covered by one or more of the following U.S. patents:7,295,673; 7,460,668; 7,515,710; 7,519,274
  ABOUT DIVX VIDEO: DivX® is a digital video format created by DivX, LLC, a subsidiary of Rovi Corporation.
  This is an official DivX Certified® device that has passed rigorous testing to verify that it plays DivX video.
  Visit divx.com for more information and software tools to convert your files into DivX videos.
  ABOUT DIVX VIDEO-ON-DEMAND: This DivX Certified® device must be registered in order to play purchased DivX Video-on-Demand (VOD) movies. To obtain your registration code, locate the DivX VOD section in your device setup menu. Go to vod.divx.com for more information on how to complete your registration. (NX504E Only)

DIVX

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Bluetooth

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HDMI® HIGH-DEFINITION MULTIMEDIA INTERFACE

- Android is the trademark of Google Inc.
- How to get source code that is considered open source.
  This unit uses open source software.
  If you want to get this software's source code, you can download it from our website.
  Refer to the following website about getting the source code.
  http://www.clarion.com/xe/en/open-source/index.html

Disposal, transfer and resale of this product

The following describes the cautions when reselling or transferring the unit to a third party or disposing of it.

Deletion of data from the unit

When reselling or transferring the unit to a third party or disposing of it, please pay attention to the following points and please delete all data at your own responsibility.

❑ *To protect your privacy...*

Initialize (delete) all data including individual information saved to memory by following the procedure below.

❑ *To protect copyright...*

Initialize (delete) the data saved in memory by following the procedure below. There is the risk that copyrighted data might infringe on copyright laws if the unit is transferred (for a charge or free of charge) or resold with data still left on it without the consent of the copyright holder.

✻ Clarion bears no responsibility for damages to the customer due to leakage of leftover data, the customer is responsible for managing data appropriately as described above.

Deleting data (initializing)

Delete (initialize) all data saved on the unit.

1 MENU ▶ ⚙ ▶ ⚙

2 Restore **at [Reset to Factory Setting]**
The confirmation screen is displayed.

3 OK
This clears all data saved on the unit.

MEMO:

- *Data after updates is saved, initialization is not done to programs that are updated.*

Bluetooth connection method and function compatibility table

The functions that can be used depend on how the Bluetooth-compatible device is connected for registration (pairing). For more details, see the table below.

For iPhone

Usage settings screen → P.28	hands free functions	Bluetooth audio
Handsfree + Smartphone Linking*	○	×
Handsfree + Music	○	○
Handsfree Only	○	×
Music Only	×	○
Smartphone Linking Only*	×	×

✻ The “Linked device” setting must be set to “iPhone”. → **P.41**

● **About Bluetooth connection mode when using Smart Access**

- For the device with 30-pin connector
  Bluetooth setting is not necessary.
- For the device with Lightning connector
  Select the Bluetooth connection mode from “Handsfree + Smartphone Linking” or “Smartphone Linking Only”.

— ***Notice***

- *If the above connection mode is selected, Bluetooth audio function cannot be used.*

For Android smartphones

Usage settings screen → P.28	hands free functions	Bluetooth audio
Handsfree + Smartphone Linking*	○	×
Handsfree + Music	○	○
Handsfree Only	○	×
Music Only	×	○
Smartphone Linking Only*	×	×

✻ The “Linked device” setting must be set to “Android”. → **P.41**

● **About Bluetooth connection mode when using Smart Access**
Select the Bluetooth connection mode from “Handsfree + Smartphone Linking” or “Smartphone Linking Only”.

— ***Notice***

- *If the above connection mode is selected, Bluetooth audio function cannot be used.*

INSTALLATION AND WIRE CONNECTION MANUAL

1. SAFETY PRECAUTIONS

❑ Symbol Identification

This manual uses symbols and icons to indicate safety precautions and concerns during the installation procedure. Be sure to carefully read and understand each precaution prior to beginning the installation.

⚠ WARNING

- **This symbol is intended to alert the user to the presence of important operating instructions. Failure to heed the instructions may result in severe injury or death.**

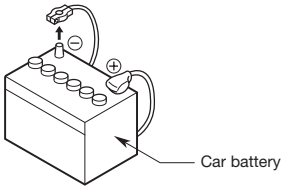
⚠ CAUTION

- **This symbol is intended to alert the user to the presence of important operating instructions. Failure to heed the instructions can result in injury or material damage.**

❑ Before Use

⚠ WARNING

- **Confirm the battery voltage of the vehicle to be installed. This unit is designed only for vehicles with DC 12V power supply.**
- **Disconnect the negative terminal of the battery before connecting wires, otherwise an electric shock, injury by short circuit may occur.**



❑ Installation Precautions

⚠ WARNING

- **When installing the unit to a vehicle with an airbag system, never install it in a place where it may affect the operation of the airbag.**
- **Do not install this unit in the following locations:**
  A location interfering with the driver's visual range or operation.
  A location where the gear shift or brake pedal are hindered.
  A location where passengers are at risk.
  An unstable location, or where the system may fall.

⚠ CAUTION

- **Do not install the system in the locations described below. This may cause a fire, accident or electrical shock:**
  A location exposed to rain or dust.
  An unstable location, or where the system may fall.
- **Do not install this unit in a place exposed to direct sunlight, heat or a place where the vent holes or heat radiation holes are covered.**
- **When you install the antenna, mount it in a place where the elements of the antenna do not protrude beyond the edge of the front, back, left and right of the vehicle.**
  If it comes in contact with pedestrians, it may cause an accident.
- **Ensure a minimum distance around the apparatus for sufficient ventilation.**
- **Do not place naked flame sources, such as lighted candles on the apparatus.**
- **Use the apparatus only in moderate climates (not in tropical climates).**

❑ Installation Notes

⚠ WARNING

- **Please note the position of pipes, tanks and electrical wirings before installing the unit into the vehicle; failure in avoiding these may cause a fire or malfunction.**

⚠ CAUTION

- **Use only the supplied parts.**
  If unspecified parts are used, they may cause damage.
- **Any holes made in the body of the vehicle should be sealed with a silicon adhesive.**
  If exhaust fumes or water penetrates into the vehicle, this may cause an accident.
- **Fasten the bolts securely when installing the unit. If the bolts are loose an accident or malfunction could occur.**

❑ *Connection Notes*

⚠ WARNING

- **Loom all cables according to the instruction manual, so as not to hinder operation.**
- **Wire the connecting cords/cables away from high temperature areas. If the coatings of the cables melt, it could cause an accident/fire by a short circuit. Take care when wiring in the engine compartment.**
- **When wiring the connecting cables in a vehicle with an airbag system, never feed the cables through a place where it may affect the operation of the airbag. An airbag not operating correctly in an emergency may cause increased injury.**

⚠ CAUTION

- **Verify wires with a digital multi-meter prior to making any connections. Many new vehicles use multiplexed and/or low voltage circuits that can be damaged if a test light or logic probe is used.**
- **Connect cables appropriately. If a wrong connection is made, this may cause a fire or accident.**
- **When passing cables through the body of the vehicle, use non-conductive grommets. If the coatings of the cables are worn out by rubbing, this may cause an accident, fire or a short circuit.**
- **After wiring cables, fix them with insulation tape.**
- **Be sure to switch off the vehicle when connecting or disconnecting cables to/from the unit, otherwise an electric shock, injury or accident may occur.**

2. PACKAGE CONTENTS

① Main unit
② Quick Start Guide & Installation Manual
③ CD-ROM
- Owner's manual
- Owner's manual - Navigation (NX504E only)

④ Power supply cable
⑤ RCA pin cable (6ch)
⑥ RCA pin cable (Rear AUX-IN/Rear Video Out)
⑦ Bag for accessories
- Flat head screw (M5 × 8 mm) 8
- Hexagonal bolt (M5 × 8 mm) 8
- Electro tap.....1
- Rubber cap (for RCA pin cable) 10
- Cable holder (NX504E only).....3
- Double-sided tape for fastening GPS antenna (NX504E only) 1
- Cable tie.....1

⑧ Warranty card
⑨ GPS antenna (NX504E only)
⑩ USB Cable

Notice
- *The provided disc (CD-ROM manual) cannot be played back on this unit.*

3. GENERAL CAUTIONS

- Do not open the case. There are no user-serviceable parts inside. If you drop anything into the unit during installation, consult your dealer or an authorized Clarion service center.

4. CAUTIONS ON INSTALLATION

- Prepare all articles necessary for installing the main unit before starting.
- Install the unit within 35° of the horizontal plane. (Figure 1)

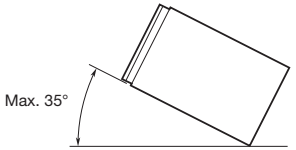


Figure 1

- If you have to do any modification on the car body, such as drilling holes, consult your car dealer beforehand.
- Use the included screws for installation. Using other screws can cause damage. (Figure 2)

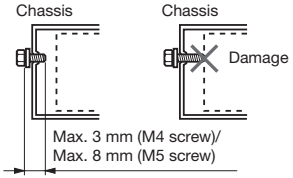


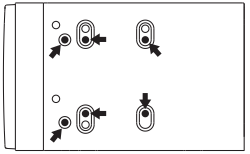
Figure 2

5. INSTALLING THE MAIN UNIT

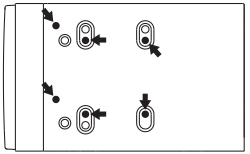
This unit is designed for fixed installation in the dashboard.

- When installing the main unit in NISSAN vehicles, use the parts attached to the unit and follow the instructions in Figure 3.
  When installing the main unit in TOYOTA vehicles, use the parts attached to the vehicle and follow the instructions in Figure 4.
- Wire as shown in Section 10. → **P.59**
- Reassemble and secure the unit in the dashboard and set the face panel and center panel.

Mounting Screw Holes (Side View of the Main Unit)



For NISSAN vehicle



For TOYOTA vehicle

❑ *Installing the Main Unit in a NISSAN Vehicle*

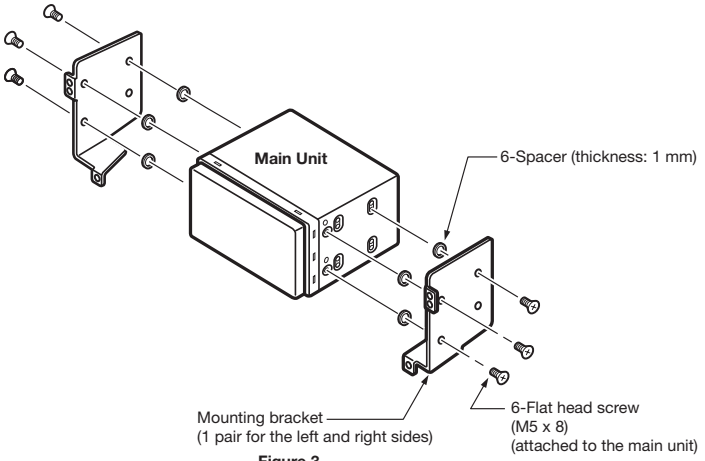


Figure 3

❑ *Installing the Main Unit in a TOYOTA Vehicle*

Install by using parts attached to the vehicle. (Screws marked ★ are attached to the vehicle.)

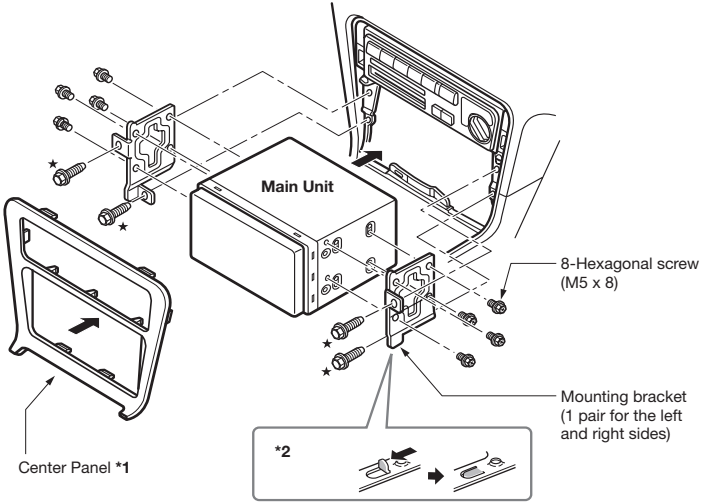
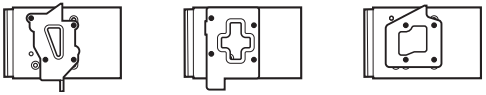


Figure 4

*1 Some panel openings are too small for the unit depending on the vehicle type and model. In such a case, trim the upper and lower sides of the panel frame by about 0.5 to 1.5 mm so the unit can be inserted smoothly.

*2 If a hook on the installation bracket interferes with the unit, bend and flatten it with a nipper or similar tool.

Typical Mounting Brackets



Example 1 **Example 2** **Example 3**

Affix the screws to the ● marks.

❑ *Vehicles other than NISSAN and TOYOTA*

In some cases the center panel may require modification. (Trimming, filing, etc.)

6. REMOVING THE MAIN UNIT

When the main unit is to be removed, disassemble it in the reverse of the order in "INSTALLING THE MAIN UNIT". → **P.56**

7. CAUTIONS ON WIRING

- Be sure to turn the power off before wiring.
  Be particularly careful where you route the wires.
- Keep them well away from the engine, and exhaust pipe, etc. Heat may damage the wires.
- If the fuse should blow, check to see if the wiring is correct.
  If a fuse is blown, replace it with a new one of the same specification as the original.
- To replace the fuse, remove the old fuse of the power supply cable and insert the new one. (Figure 5)

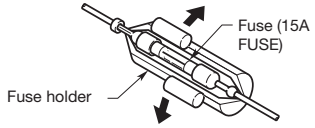


Figure 5

- There are various types of fuse holder. Do not let the battery side touch other metal parts.

⚠ CAUTION

- **After connecting the HDMI and USB cables to the unit, use a cable tie to tie them down. (Figure 6)**

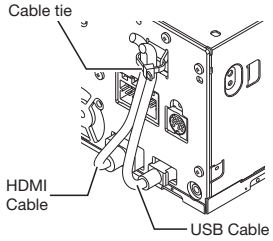


Figure 6

English

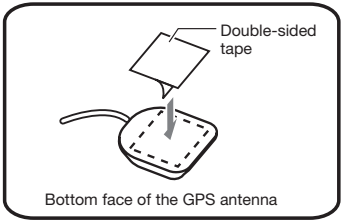
8. INSTALLING THE GPS ANTENNA (NX504E ONLY)

⚠ WARNING

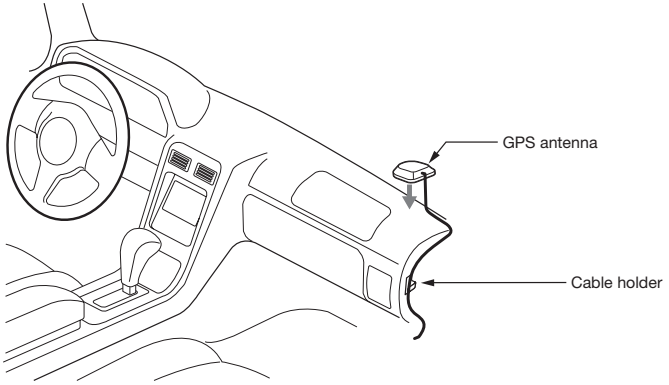
- **Do not install the GPS antenna in a place where it may interfere with the operation of the airbag or hinder the driver's visual range.**
- **Do not use the navigation system with the GPS antenna cable cut off. The power line in the cable may be short-circuited.**

- The supplied GPS antenna is for installation inside the vehicle. Do not install it outside the vehicle.
- Install the GPS antenna more than 50 cm away from the main unit, other audio devices such as CD player, and a radar detector. If it is installed near these devices, GPS reception may be impaired.
- To improve the GPS signal reception, install the GPS antenna horizontally on a flat plane.
- Do not wax or paint the cover of the GPS antenna. This may reduce the performance of the GPS antenna.
- Install the GPS antenna at least 10 cm away from the windshield.
- Wipe off the dirt of the mounting surface before installing the GPS antenna.

- Stick the double-sided tape to the bottom face of the GPS antenna.



- Mount the GPS antenna.
  Stick it surely on a flat plane of the passenger-side dashboard where GPS signal interruption is minimized.
- Wire the GPS antenna cable.
  Fasten the cable using the Cable holders.



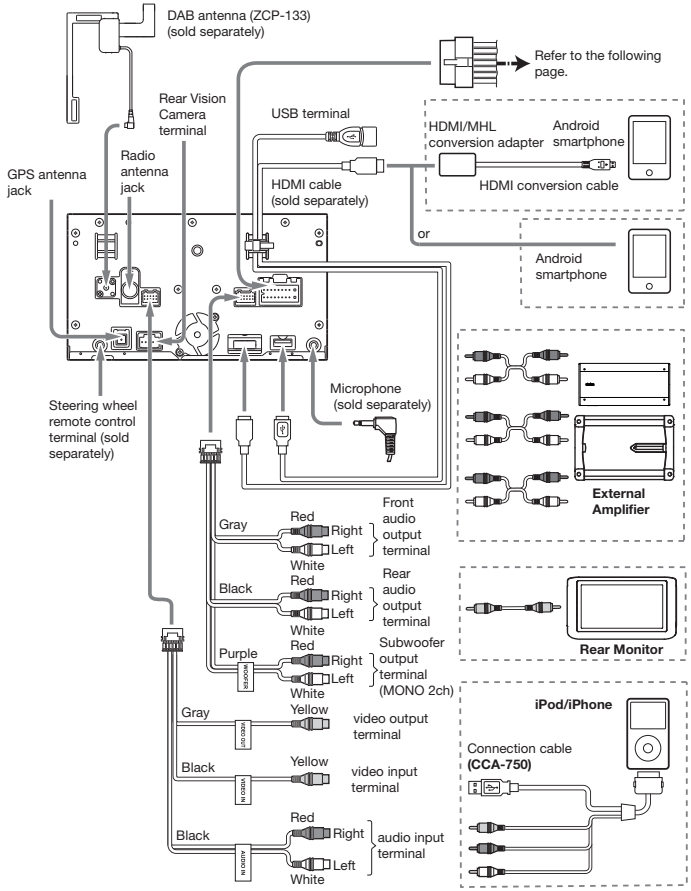
(Shows an example in case of the left-hand traffic.)

9. DAB ANTENNA CONNECTION (NX504E ONLY)

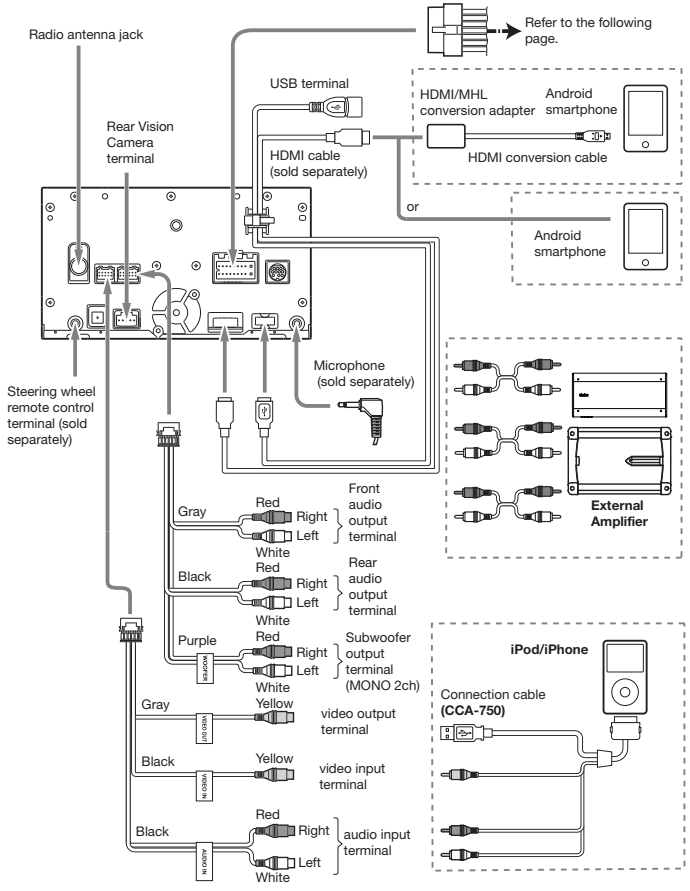
For details on how to attach the antenna film, refer to the installation supplied with the antenna.

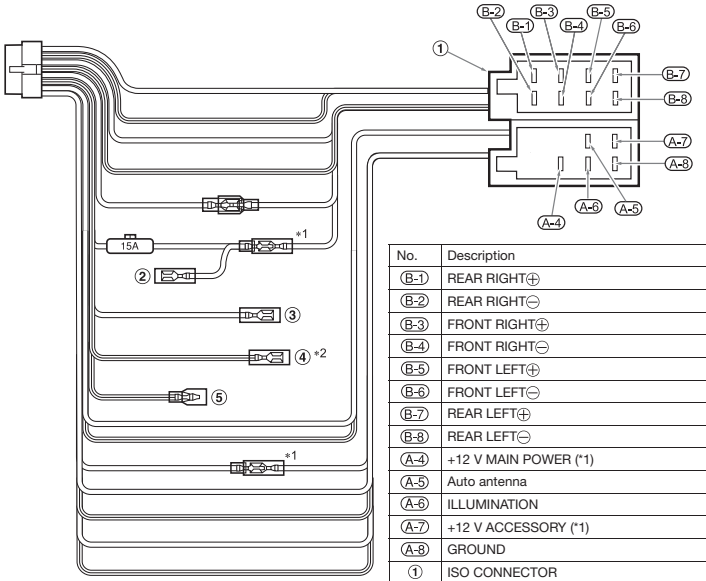
10. WIRE CONNECTION

NX504E



FX504E





No.	Description
B-1	REAR RIGHT⊕
B-2	REAR RIGHT⊖
B-3	FRONT RIGHT⊕
B-4	FRONT RIGHT⊖
B-5	FRONT LEFT⊕
B-6	FRONT LEFT⊖
B-7	REAR LEFT⊕
B-8	REAR LEFT⊖
A-4	+12 V MAIN POWER (*1)
A-5	Auto antenna
A-6	ILLUMINATION
A-7	+12 V ACCESSORY (*1)
A-8	GROUND
①	ISO CONNECTOR
②	Spare terminal (Yellow)
③	Parking brake (Grass-green)
④	Remote terminal (Blue/White) (*2)
⑤	Reverse gear terminal (Purple/White)

*1 In certain vehicles **- Volkswagen/Opel/Vauxhall -** it is necessary to exchange the accessory <<Red>> and the main power <<Yellow>> connection, to avoid overload and loss of memory.

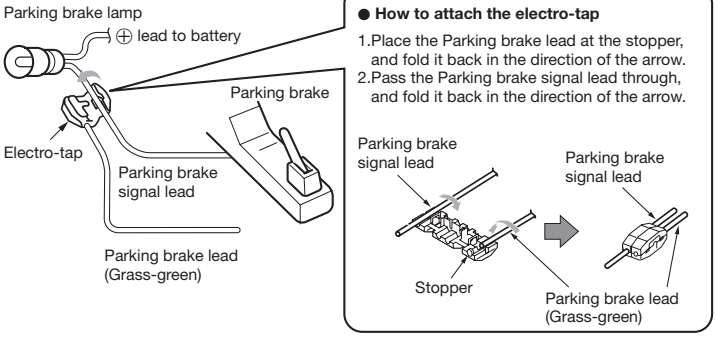
*2 When the unit is installed in a **1998 or later Volkswagen** model, make sure to interrupt the <<Remote>> output. Disconnect the <<blue/white>> wire and insulate the front ends of this cord. A breakdown may occur if the cord is not disconnected, or front ends are not insulated.

See next page for how to connect the parking brake lead.

Connecting the parking brake lead

Connect the lead to parking brake lamp ground in the meter panel.

- Connecting the parking brake lead to lamp ground allows you to watch video images when the parking brake is engaged.
- When the parking brake lead is not connected, the monitor will not display video images.


Parking brake lamp
⊕ lead to battery
Parking brake
Electro-tap
Parking brake signal lead
Parking brake lead (Grass-green)
● How to attach the electro-tap
1.Place the Parking brake lead at the stopper, and fold it back in the direction of the arrow.
2.Pass the Parking brake signal lead through, and fold it back in the direction of the arrow.
Parking brake signal lead
Parking brake signal lead
Stopper
Parking brake lead (Grass-green)

❑ *Connecting the Accessories*

Connection to the Rear Vision Camera for vehicle

The Rear Vision Camera for vehicle can be connected to optional Rear Vision Camera input cable (CCA-644) with RCA pin cable. For detailed information, refer to the instruction sheet or manual for the Rear Vision Camera.

- Be sure to connect the reverse gear lead to the vehicle's relevant terminal.
- Connect the Rear Vision Camera to the RCA pin cable; if not, the screen turns black while the gearshift lever is in the reverse gear position.

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CE

English:

Declaration of conformity

We Clarion declares that this model NX504E/FX504E is following the provision of Directive 1999/5/EC with the essential requirements and the other relevant regulations.

Français:

Déclaration de conformité

Nous, Clarion, déclarons que ce modèle NX504E/FX504E est conforme aux exigences essentielles et aux autres dispositions pertinentes de la directive 1999/5/CE.

Deutsch:

Konformitätserklärung

Wir, Clarion, erklären, dass dieses Modell NX504E/FX504E den Bestimmungen der Richtlinie 1999/5/EG im Hinblick auf die grundlegenden Anforderungen und andere relevante Bestimmungen entspricht.

Italiano:

Dichiarazione di conformità

Clarion dichiara che il presente modello NX504E/FX504E è conforme ai requisiti essenziali e alle altre disposizioni pertinenti stabiliti dalla direttiva 1999/5/ CE.

Nederlands:

Conformiteitsverklaring

Clarion verklaart dat het model NX504E/FX504E in overeenstemming is met de essentiële eisen en andere relevante voorschriften van de bepalingen van Richtlijn 1999/5/EC.

Español:

Declaración de conformidad

Clarion declara que este modelo NX504E/FX504E cumple con los requisitos esenciales y otras disposiciones aplicables descritos en la Directiva 1999/5/CE.

Svenska:

Intyg om överensstämmelse

Härmed intygar Clarion att denna modell NX504E/FX504E uppfyller kraven i direktiv 1999/5/EG gällande väsentliga egenskaper och övriga relevanta bestämmelser.

Polski:

Deklaracja zgodności

Firma Clarion niniejszym oświadcza, że model NX504E/FX504E jest zgodny z istotnymi wymogami oraz innymi odpowiednimi postanowieniami Dyrektywy 1999/5/WE

Ελληνικά:

Δήλωση συμμόρφωσης

Εμείς στην Clarion δηλώνουμε ότι αυτό το μοντέλο NX504E/FX504E τηρεί τις διατάξεις της Οδηγίας 1999/5/ΕΚ σχετικά με τις ουσιώδεις απαιτήσεις και τους άλλους σχετικούς κανονισμούς.

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2014/7

QY-1120E/QZ-3120E
QCA-305-110